District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2310935343
District RP	
Facility ID	
Application ID	

I Release Notification

Responsible Party

Responsible Party Hilcorp Energy	OGRID 372171
Contact Name: Kate Kaufman	Contact Telephone: 346-237-2275
Contact email: kkaufman@hilcorp.com	Incident # (assigned by OCD) nAPP2310935343
Contact mailing address: 1111 Travis St. Houston, TX 77471	

Location of Release Source

Latitude 36.637216_

[NAD 83 in decimal degrees to 5 decimal places]

Site Name: Federal Gas Com #1	Site Type: Well Site
Date Release Discovered: 4/18/2023	API# (if applicable) 30-045-07196

Unit Letter	Section	Township	Range	County
А	28	028N	010W	San Juan

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe) Historic Hydrocarbon	Volume/Weight Released (provide units) Estimated 29 bbls	Volume/Weight Recovered (provide units)
Cause of Release		
Historic contamination v	was discovered during P&A and site reclamation operat	ions. Delineation

If YES, for what reason(s) does the responsible party consider this a major release? Estimated release volume is greater than 25 barrels.
otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

This is a historic release and there was no active source at the time of discovery.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:Kate Kaufman	Title:Environmental Specialist
Signature: Katherstaufna	Date:4/19/2023
email:kkaufman@hilcorp.com	Telephone:346-237-2275
OCD Only	
Received by: Jocelyn Harimon	Date: 04/19/2023

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	208979
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Sonation	Condition Date
jharimon	None	4/19/2023

Page 3.off9

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Action 208979

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State of New Mexico **Oil Conservation Division**

Incident ID	NAPP2310935343
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?		
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No ☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?		
Are the lateral extents of the release overlying a subsurface mine?	Yes No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No	
Are the lateral extents of the release within a 100-year floodplain?	🔲 Yes 🛛 No	
	🗌 Yes 🛛 No	
Did the release impact areas not on an exploration, development, production, or storage site?		

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. \boxtimes Field data

- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
 - Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs

MG 02-07-2 2000/2

- Photographs including date and GIS information
- Topographic/Aerial maps
- \boxtimes Laboratory data including chain of custody

😚 f the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation Implan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	NAPP2310935343
regulations all operator, public health or the env failed to adequately inv addition, OCD acceptar and/or regulations.	e information given above is true and complete to the is are required to report and/or file certain release not vironment. The acceptance of a C-141 report by the O vestigate and remediate contamination that pose a thru nce of a C-141 report does not relieve the operator of athrup Kaufman	ifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele coperator of liability sho ce water, human health liance with any other fee	eases which may endanger ould their operations have or the environment. In
Signature: comail: kkar	y of Kat u man Chilcorp. com	Date: $7 12 2$ Telephone: 3	2 <u>3</u> 144- 237- 2	275
OCD Only Received by: <u>Shell</u>	ly Wells	Date: <u>7/17/</u>	2023	

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Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NAPP2310935343
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Kathyn Kau fman Title: Env. Specialist Date: $1 12 23$ email: Kkau fman e hil corp. com Telephone: $344 - 231 - 2275$
OCD Only Received by: Shelly Wells Date: 7/17/2023
Signature: Nelson Velez Date: 10/06/2023
Remediation plan is approved under the following conditions;
 Remediation plan is approved under the following conditions; 1. Variance to collect 5 composite samples not to exceed 400 square feet is approved. 2. Hilcorp must provide supporting documentation toward the site assessment/characterization report and submit within its final closure report. 3. Remediation Due date updated to April 3, 2024 (6 months) and to submit its appropriate or final closure report.
Sec.



July 17, 2023

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Site Investigation Report and Remediation Work Plan Federal Gas Com #1 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident No: NAPP2310935343

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Investigation Report and Remediation Work Plan* for a release at the former Federal Gas Com #1 natural gas production well (Site). The Site is located on federal land managed by the Bureau of Land Management (BLM) in Unit A, Section 28, Township 28 North, Range 10 West, in San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

While conducting activities to plug and abandon the Federal Gas Com #1 well, remove associated equipment, and reclaim the well pad, Hilcorp personnel discovered historical contamination at the Site. Obvious stained soil was removed from the Site and disposed at the Envirotech Landfarm located in San Juan County, New Mexico. Based on initial field screening of soil collected from the floor and sidewalls of the excavation, Hilcorp ceased excavating and began delineation activities in order to assess the lateral and vertical extents on soil impacts at the Site. Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and submitted an initial *Form C-141 Release Notification* on April 19, 2023. NMOCD assigned the release incident number NAPP2310935343.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC).

The Site is located within the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarsegrained sandstones, which ranges in thickness from 418 feet to 2,232 feet. The hydrologic properties of the Nacimiento Formation display variable hydrologic properties dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The Nacimiento Formation is underlain by the Ojo Alamo sandstone (Stone et. al., 1983). The closest significant watercourse is an unnamed dry wash with a defined bed and bank located 280 feet to the southeast of the Site and is a first-order tributary of a significant watercourse, as defined by a dashed blue line on a United States Geologic Survey (USGS) 7.5 minute quadrangle map. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 1). The nearest fresh-water well is New Mexico Office of the State Engineer (NMOSE) permitted well SJ-04072 (Appendix A), located approximately 1.17 miles north of the Site. The recorded depth to water on the NMOSE database is 242 feet below ground surface (bgs). No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria will be applied to the Site based on the information provided above:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

In response to the discovery of historical impacts, Hilcorp performed initial excavation activities at the end of 2022 and beginning of 2023 to remove soil impacted by hydrocarbons. Currently, the excavation footprint measures approximately 6,600 square feet in areal extent to a maximum depth of 5 feet bgs (Figure 2). In total, approximately 1,500 cubic yards of soil have been excavated and transported to the Envirotech, Inc. Landfarm, located in San Juan County, New Mexico.

Because of the size of the excavation, Hilcorp conducted delineation activities on December 8, 2022, using a trackhoe to assess the lateral and vertical extent of impacts at the Site. Specifically, potholes E1, E2, NE1, NE2, NW1, NW2, W1, W2, S1, SE1, and SE2 were advanced in the locations shown on Figure 2. Based on the analytical results gathered during the December 2022 delineation activities, TPH and BTEX concentrations exceeded the Closure Criteria in several samples, as presented in Table 1 and on Figure 2. Chloride was not detected above the Closure Criteria in any of the analyzed soil samples. Analytical results from the December 2022 delineation event indicated areas to the east, south, and west had not been fully delineated.

Based on delineation data collected by Hilcorp, additional delineation activities were performed by Ensolum on April 3, 2023, to further delineate soil impacts at the Site. Potholes PH01 through PH07 were advanced in all directions around the current excavation extent using a trackhoe to depths up to 7 feet bgs. Ensolum personnel field screened soil for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). In general, soil samples were collected at depth intervals indicating the greatest impacts based on field screening and PID measurements. Soil samples collected during the delineation activities were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 6 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were submitted for analyses of BTEX following United



States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Based on the analytical results gathered during the April 2023 delineation event, all samples collected from PH01 through PH07 were compliant with the applicable Closure Criteria (Table 1) and indicate that the extent of petroleum impacted soil has been delineated at the Site (Figure 2).

Based on the extent of soil impacts at the Site and the area of soil already removed from the excavation, the areal extent of remaining soil impacts measures approximately 10,900 square feet in size, with impacts present to depths up to approximately 6 feet bgs. Analytical results gathered during delineation activities are summarized in Table 1 and depicted on Figure 2, with complete laboratory reports attached as Appendix B. It is estimated that 1,820 cubic yards of impacted soil remains at the Site. The approximate areal extent of remaining impacts are presented on Figure 3. Photographs taken by Hilcorp during the field work are included in Appendix C.

REMEDIATION WORK PLAN

Based on the large volume of impacted soil, large areal extent of impacts, and generally shallow depths of impacts, Hilcorp proposes to apply Micro-Blaze Emergency Liquid Spill Control (Micro-Blaze[™]) amendment (Appendix D) to remediate TPH impacted soil through enhanced amendment bioremediation techniques. Micro-Blaze™ is а liquid designed to enhance/supplement the natural biological degradation of residual hydrocarbons in impacted media. Based on the manufacturer's application guidelines, approximately 1 gallon of concentrated Micro-Blaze[™] can treat 5 to 7 cubic yards of TPH impacted soil. Based on this application rate, approximately 300 gallons of Micro-Blaze™ will need to be diluted to a 3 to 10 percent (%) solution and applied to the impacted soil per the manufacturer's recommendations.

In order to apply the solution, Hilcorp will remove the impacted soil from the area shown on Figure 3 and create small stockpiles within the current excavation footprint, each measuring approximately 100 cubic yards. As soil is removed, the excavation sidewalls and floors will be field screened using a PID. Once field screening indicates impacted soil has been removed, 5-point composite samples will be collected from the sidewalls and floor of the excavation at a frequency of one sample per 400 square feet, which Hilcorp is requesting this variance to the confirmation sampling requirements. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Samples will be collected and submitted to Hall using the techniques described above and will be analyzed for TPH and BTEX constituents.

Once all impacted soil has been stockpiled, the Micro-Blaze[™] solution will be sprayed onto the individual stockpiles and mixed into the soil by turning with the trackhoe. Turning the soil will have the added benefit of promoting volatilization of contaminants and thereby reducing overall TPH concentrations, as well as introducing oxygen to the soil that will increase the microbial activity and efficacy of the Micro-Blaze[™] amendment. After allowing the Micro-Blaze[™] to degrade the residual TPH concentrations in the soil, Hilcorp will field screen the stockpiles two months after the amendment application. Specifically, field screening will be achieved by using a hand auger to collect a 5-point composite sample from each stockpile that is representative of the entire 100 cubic yards of soil. If field screening indicates elevated TPH concentrations remain in the soil, the stockpiles will again be turned using the trackhoe to reintroduce oxygen and promote volatilization of contaminants.



The process described above will be repeated every two months for up to six months. If at any time field screening indicates TPH and BTEX concentrations have been reduced to below NMOCD Closure Criteria, the NMOCD will be notified two days in advance of sampling and 5-point composite samples will be collected for analysis of TPH and BTEX from each 100 cubic yard stockpile. Following remediation, the excavation will be backfilled and Hilcorp will proceed with implementation of the BLM-approved reclamation plan for the Site.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,

Ensolum, **LLC**

Stuart Hyde, LG Senior Geologist (970) 903-1607 shyde@ensolum.com

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Delineation Soil Sample Results
- Figure 3: Extent of Remaining Impacted Soil
- Table 1: Soil Sample Analytical Results
- Appendix A: NMOSE Well Summary
- Appendix B: Laboratory Analytical Reports
- Appendix C: Photographic Log
- Appendix D: Micro-Blaze™ Brochure

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

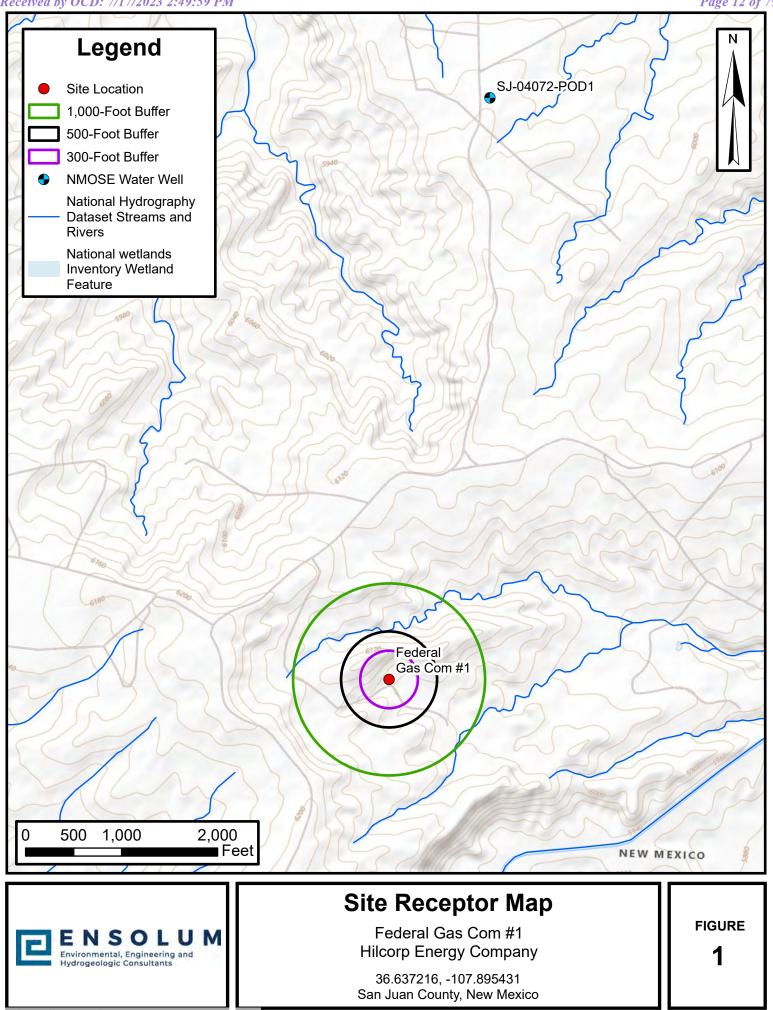




FIGURES

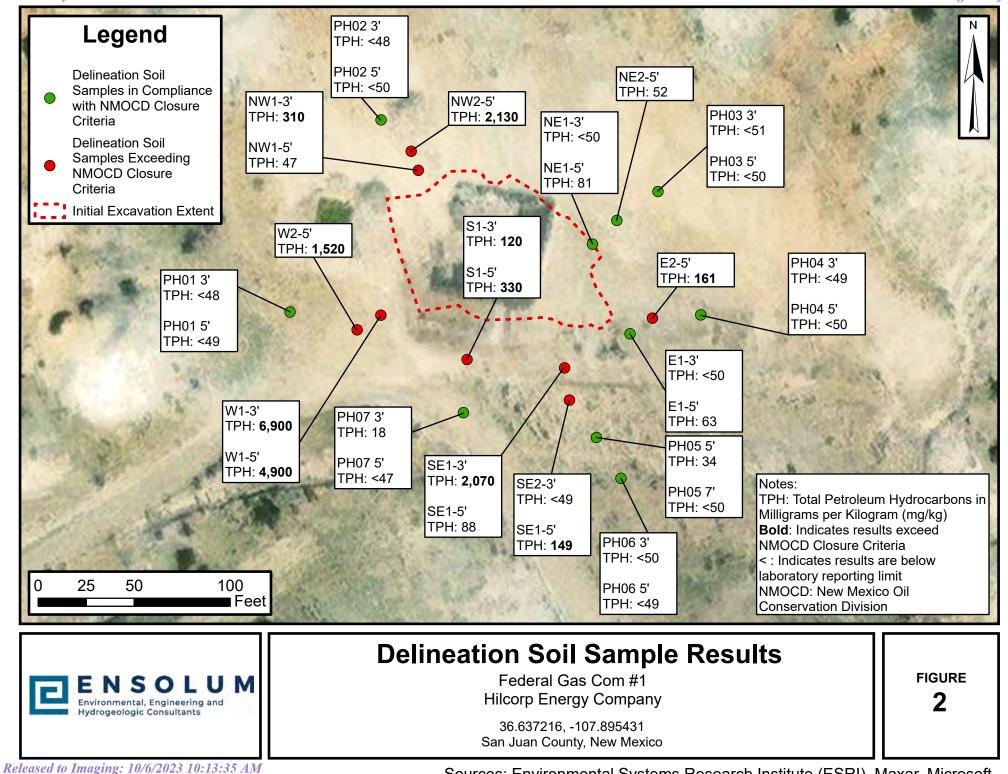
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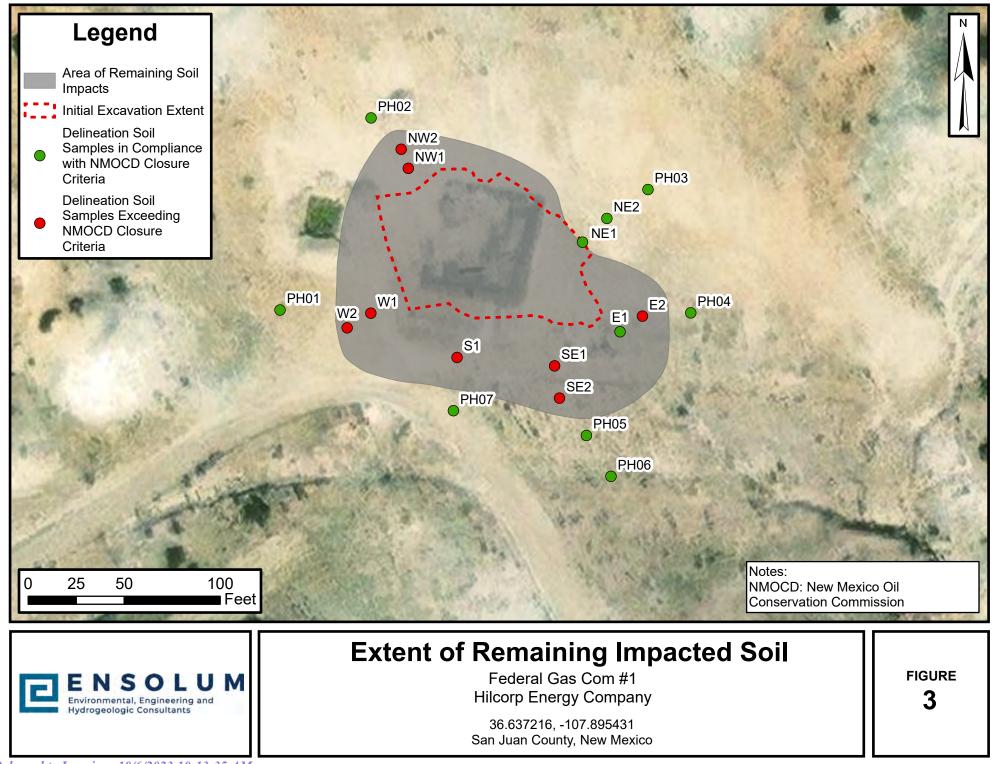
Released to Imaging: 10/6/2023 10:13:35 AM Institute (ESRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS)

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Sources: Environmental Systems Research Institute (ESRI), Maxar, Microsoft

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Sources: Environmental Systems Research Institute (ESRI), Maxar, Microsoft



TABLES

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					Hilcorp	TABLE 1 ANALYTICA eral Gas Com Energy Com County, New	#1 pany					
Sample ID	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Release	Criteria for Soils (Groundwater <5		10	NE	NE	NE	50	NE	NE	NE	100	600
E1-3'	12/8/2022	3	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	<50	<50	<50	180
E1-5'	12/8/2022	5	<0.12	<0.25	0.28	0.66	0.94	32	31	<49	63	120
E2-5'	12/8/2022	5	<0.12	<0.24	0.27	0.82	1.1	61	100	<50	161	73
NE1-3'	12/8/2022	3	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<50	69
NE1-5'	12/8/2022	5	0.12	<0.25	0.36	2.8	3.3	39	42	<48	81	<60
NE2-5'	12/8/2022	5	<0.12	<0.25	<0.25	<0.50	<0.50	<25	52	<48	52	67
NW1-3'	12/8/2022	3	0.098	<0.24	0.98	8.3	9.4	130	180	<48	310	<60
NW1-5'	12/8/2022	5	<0.025	< 0.049	<0.049	0.26	0.26	11	36	<47	47	<60
NW2-5'	12/8/2022	5	0.31	<0.25	11	54	65	1,300	830	<50	2,130	<60
W1-3'	12/8/2022	3	0.69	19	11	300	331	4,400	2,500	<460	6,900	<59
W1-5'	12/8/2022	5	0.93	21	14	220	256	3,400	1,500	<430	4,900	70
W2-5'	12/8/2022	5	0.17	11	4.3	52	67	950	570	<47	1,520	<60
S1-3'	12/8/2022	3	<0.025	< 0.049	< 0.049	<0.098	<0.098	<4.9	54	66	120	<60
S1-5'	12/8/2022	5	<0.12	0.27	0.70	10	11	210	120	<49	330	<60
SE1-3'	12/8/2022	3	0.32	0.65	3.9	71	76	1,500	570	<46	2,070	<60
SE1-5'	12/8/2022	5	<0.12	<0.24	0.33	3.3	3.6	46	42	<50	88	<59
SE2-3'	12/8/2022	3	<0.025	< 0.049	< 0.049	<0.099	< 0.099	<4.9	<15	<49	<49	93
SE2-5'	12/8/2022	5	<0.12	<0.24	0.28	3.0	3.3	75	74	<47	149	<60
PH01 3'	4/3/2023	3	<0.025	< 0.050	< 0.050	<0.099	< 0.099	<5.0	<9.6	<48	<48	<60
PH01 5'	4/3/2023	5	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<49	<49	<60
PH02 3'	4/3/2023	3	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60
PH02 5'	4/3/2023	5	<0.024	<0.048	<0.048	<0.096	< 0.096	<4.8	<10	<50	<50	<60
PH03 3'	4/3/2023	3	< 0.024	< 0.049	<0.049	< 0.097	<0.097	<4.9	<10	<51	<51	210
PH03 5'	4/3/2023	5	<0.024	< 0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	160
PH04 3'	4/3/2023	3	<0.024	< 0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	96
PH04 5'	4/3/2023	5	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	110
PH05 5'	4/3/2023	5	<0.12	<0.25	<0.25	<0.50	<0.50	<25	34	<49	34	<60
PH05 7'	4/3/2023	7	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	<60
PH06 3'	4/3/2023	3	<0.024	< 0.047	<0.047	<0.094	< 0.094	<4.7	<10	<50	<50	77
PH06 5'	4/3/2023	5	<0.025	< 0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<49	<49	<60
PH07 3'	4/3/2023	3	<0.024	< 0.047	<0.047	< 0.094	< 0.094	<4.7	18	<49	18	89
PH07 5'	4/3/2023	5	< 0.024	< 0.048	<0.048	< 0.097	< 0.097	<4.8	<9.4	<47	<47	<60

Notes:

bgs: below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes mg/kg: milligrams per kilogram NA: Not Analyzed NE: Not Established

NMOCD: New Mexico Oil Conservation Division

': feet

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in bold and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release



APPENDIX A

NMOSE Well Summary

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE EINGINEER OFFICE AZTEC, NEW MEXICO

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APPENDIX B

Laboratory Analytical Reports

Released to Imaging: 10/6/2023 10:13:35 AM



December 21, 2022

Fasho Trujillo HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: Federal Gas Com 1

OrderNo.: 2212579

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Fasho Trujillo:

Hall Environmental Analysis Laboratory received 18 sample(s) on 12/9/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2212579 Date Reported: 12/21/2022

CLIENT: HILCORP ENERGY		Client S	Sample ID:	E1-5'			
Project: Federal Gas Com 1		Collec	tion Date:	12/8/2	022 11:00:00 AM		
Lab ID: 2212579-001	Matrix: SOIL	Received Date: 12/9/2022 7:35:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	31	15	mg/Kg	1	12/13/2022 11:40:07 AM		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/13/2022 11:40:07 AM		
Surr: DNOP	108	21-129	%Rec	1	12/13/2022 11:40:07 AM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM		
Gasoline Range Organics (GRO)	32	25	mg/Kg	5	12/13/2022 4:29:00 AM		
Surr: BFB	155	37.7-212	%Rec	5	12/13/2022 4:29:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	ND	0.12	mg/Kg	5	12/13/2022 4:29:00 AM		
Toluene	ND	0.25	mg/Kg	5	12/13/2022 4:29:00 AM		
Ethylbenzene	0.28	0.25	mg/Kg	5	12/13/2022 4:29:00 AM		
Xylenes, Total	0.66	0.50	mg/Kg	5	12/13/2022 4:29:00 AM		
Surr: 4-Bromofluorobenzene	118	70-130	%Rec	5	12/13/2022 4:29:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	120	60	mg/Kg	20	12/15/2022 8:03:24 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 24

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022 Client Sample ID: E2-5'

Project:	Federal Gas Com 1		Coll	ection Date:	12/8/2	022 11:07:00 AM
Lab ID:	2212579-002	Matrix: SOIL	Re	ceived Date:	12/9/2	022 7:35:00 AM
Analyses		Result	RL Q	ual Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH
Diesel R	ange Organics (DRO)	100	15	mg/Kg	1	12/13/2022 11:50:45 AM
Motor Oi	I Range Organics (MRO)	ND	50	mg/Kg	1	12/13/2022 11:50:45 AM
Surr: I	ONOP	111	21-129	%Rec	1	12/13/2022 11:50:45 AM
EPA ME	THOD 8015D: GASOLINE F	RANGE				Analyst: CCM
Gasoline	Range Organics (GRO)	61	24	mg/Kg	5	12/13/2022 4:48:00 AM
Surr: E	BFB	194	37.7-212	%Rec	5	12/13/2022 4:48:00 AM
EPA ME	THOD 8021B: VOLATILES					Analyst: CCM
Benzene		ND	0.12	mg/Kg	5	12/13/2022 4:48:00 AM
Toluene		ND	0.24	mg/Kg	5	12/13/2022 4:48:00 AM
Ethylben	zene	0.27	0.24	mg/Kg	5	12/13/2022 4:48:00 AM
Xylenes,	Total	0.82	0.49	mg/Kg	5	12/13/2022 4:48:00 AM
Surr: 4	4-Bromofluorobenzene	130	70-130	S %Rec	5	12/13/2022 4:48:00 AM
EPA ME	THOD 300.0: ANIONS					Analyst: NAI
Chloride		73	60	mg/Kg	20	12/15/2022 8:15:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 24

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Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT:	HILCORP ENERGY		Client Sample ID: E1-3'						
Project:	Federal Gas Com 1		Colle	ction Date:	12/8/2	022 11:15:00 AM			
Lab ID:	2212579-003	Matrix: SOIL	Reco	eived Date:	12/9/2	022 7:35:00 AM			
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed			
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH			
Diesel Ra	ange Organics (DRO)	ND	15	mg/Kg	1	12/13/2022 12:01:19 PM			
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	12/13/2022 12:01:19 PM			
Surr: D	NOP	115	21-129	%Rec	1	12/13/2022 12:01:19 PM			
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst: CCM			
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	12/13/2022 5:08:00 AM			
Surr: E	BFB	97.3	37.7-212	%Rec	1	12/13/2022 5:08:00 AM			
ΕΡΑ ΜΕΤ	HOD 8021B: VOLATILES					Analyst: CCM			
Benzene		ND	0.025	mg/Kg	1	12/13/2022 5:08:00 AM			
Toluene		ND	0.050	mg/Kg	1	12/13/2022 5:08:00 AM			
Ethylbenz	zene	ND	0.050	mg/Kg	1	12/13/2022 5:08:00 AM			
Xylenes,	Total	ND	0.10	mg/Kg	1	12/13/2022 5:08:00 AM			
Surr: 4	-Bromofluorobenzene	98.8	70-130	%Rec	1	12/13/2022 5:08:00 AM			
ΕΡΑ ΜΕΤ	HOD 300.0: ANIONS					Analyst: NAI			
Chloride		180	61	mg/Kg	20	12/15/2022 8:53:03 PM			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Repo

Page 3 of 24

Federal Gas Com 1

Project:

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

Client Sample ID: NE1-3' Collection Date: 12/8/2022 11:22:00 AM **Dessived Deter** 12/0/2022 7:25:00 AM

Lab ID: 2212579-004	Matrix: SOIL	Received Date: 12/9/2022 7:35:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/13/2022 12:11:56 PM		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/13/2022 12:11:56 PM		
Surr: DNOP	111	21-129	%Rec	1	12/13/2022 12:11:56 PM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/13/2022 5:27:00 AM		
Surr: BFB	97.3	37.7-212	%Rec	1	12/13/2022 5:27:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	ND	0.025	mg/Kg	1	12/13/2022 5:27:00 AM		
Toluene	ND	0.050	mg/Kg	1	12/13/2022 5:27:00 AM		
Ethylbenzene	ND	0.050	mg/Kg	1	12/13/2022 5:27:00 AM		
Xylenes, Total	ND	0.10	mg/Kg	1	12/13/2022 5:27:00 AM		
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	12/13/2022 5:27:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	69	61	mg/Kg	20	12/15/2022 9:05:28 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 24

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Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT: HILCORP ENERGY	Client Sample ID: NE1-5'						
Project: Federal Gas Com 1		Collec	tion Date:	12/8/2	022 11:30:00 AM		
Lab ID: 2212579-005	Matrix: SOIL	022 7:35:00 AM					
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	42	14	mg/Kg	1	12/13/2022 12:22:32 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/13/2022 12:22:32 PM		
Surr: DNOP	113	21-129	%Rec	1	12/13/2022 12:22:32 PM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM		
Gasoline Range Organics (GRO)	39	25	mg/Kg	5	12/13/2022 5:47:00 AM		
Surr: BFB	148	37.7-212	%Rec	5	12/13/2022 5:47:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	0.12	0.099	mg/Kg	5	12/13/2022 5:47:00 AM		
Toluene	ND	0.25	mg/Kg	5	12/13/2022 5:47:00 AM		
Ethylbenzene	0.36	0.25	mg/Kg	5	12/13/2022 5:47:00 AM		
Xylenes, Total	2.8	0.49	mg/Kg	5	12/13/2022 5:47:00 AM		
Surr: 4-Bromofluorobenzene	118	70-130	%Rec	5	12/13/2022 5:47:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	ND	60	mg/Kg	20	12/15/2022 9:17:53 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 24

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022 Client Sample ID: NE2-5'

Project:	Federal Gas Com 1		Collec	tion Date:	12/8/2	022 11:40:00 AM			
Lab ID:	2212579-006	Matrix: SOIL	Received Date: 12/9/2022 7:35:00 AM						
Analyses		Result	RL Qu	al Units	DF	Date Analyzed			
EPA ME	THOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst: DGH			
Diesel R	ange Organics (DRO)	52	15	mg/Kg	1	12/16/2022 1:22:40 AM			
Motor O	I Range Organics (MRO)	ND	48	mg/Kg	1	12/16/2022 1:22:40 AM			
Surr:	DNOP	124	21-129	%Rec	1	12/16/2022 1:22:40 AM			
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analyst: CCM			
Gasoline	e Range Organics (GRO)	ND	25	mg/Kg	5	12/13/2022 6:06:00 AM			
Surr:	BFB	151	37.7-212	%Rec	5	12/13/2022 6:06:00 AM			
EPA ME	THOD 8021B: VOLATILES					Analyst: CCM			
Benzene)	ND	0.12	mg/Kg	5	12/13/2022 6:06:00 AM			
Toluene		ND	0.25	mg/Kg	5	12/13/2022 6:06:00 AM			
Ethylben	izene	ND	0.25	mg/Kg	5	12/13/2022 6:06:00 AM			
Xylenes,	Total	ND	0.50	mg/Kg	5	12/13/2022 6:06:00 AM			
Surr:	4-Bromofluorobenzene	115	70-130	%Rec	5	12/13/2022 6:06:00 AM			
EPA ME	THOD 300.0: ANIONS					Analyst: NAI			
Chloride		67	60	mg/Kg	20	12/15/2022 9:30:17 PM			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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2212579-007

Federal Gas Com 1

Project:

Lab ID:

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022 Client Sample ID: NW1-3' Collection Date: 12/8/2022 11:45:00 AM

Received Date: 12/9/2022 7:35:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	180	15		mg/Kg	1	12/16/2022 1:33:19 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/16/2022 1:33:19 AM
Surr: DNOP	128	21-129		%Rec	1	12/16/2022 1:33:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	130	24		mg/Kg	5	12/13/2022 6:26:00 AM
Surr: BFB	371	37.7-212	S	%Rec	5	12/13/2022 6:26:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	0.098	0.097		mg/Kg	5	12/13/2022 6:26:00 AM
Toluene	ND	0.24		mg/Kg	5	12/13/2022 6:26:00 AM
Ethylbenzene	0.98	0.24		mg/Kg	5	12/13/2022 6:26:00 AM
Xylenes, Total	8.3	0.48		mg/Kg	5	12/13/2022 6:26:00 AM
Surr: 4-Bromofluorobenzene	168	70-130	S	%Rec	5	12/13/2022 6:26:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/15/2022 9:42:41 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 7 of 24

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Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022 Client Sample ID: NW1-5'

Project:	Federal Gas Com 1	Collection Date: 12/8/2022 11:53:00 AM						
Lab ID:	2212579-008	Matrix: SOIL	Received Date: 12/9/2022 7:35:00 AM					
Analyses		Result	RL Qu	al Units	DF	Date Analyzed		
EPA ME	THOD 8015M/D: DIESEL R/	ANGE ORGANICS				Analyst: DGH		
Diesel R	ange Organics (DRO)	36	14	mg/Kg	1	12/19/2022 5:56:56 PM		
Motor O	il Range Organics (MRO)	ND	47	mg/Kg	1	12/19/2022 5:56:56 PM		
Surr:	DNOP	92.5	21-129	%Rec	1	12/19/2022 5:56:56 PM		
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analyst: RAA		
Gasoline	e Range Organics (GRO)	11	4.9	mg/Kg	1	12/14/2022 1:42:23 PM		
Surr:	BFB	162	37.7-212	%Rec	1	12/14/2022 1:42:23 PM		
EPA ME	THOD 8021B: VOLATILES					Analyst: RAA		
Benzene	9	ND	0.025	mg/Kg	1	12/14/2022 1:42:23 PM		
Toluene		ND	0.049	mg/Kg	1	12/14/2022 1:42:23 PM		
Ethylber	izene	ND	0.049	mg/Kg	1	12/14/2022 1:42:23 PM		
Xylenes	Total	0.26	0.099	mg/Kg	1	12/14/2022 1:42:23 PM		
Surr:	4-Bromofluorobenzene	92.1	70-130	%Rec	1	12/14/2022 1:42:23 PM		
EPA ME	THOD 300.0: ANIONS					Analyst: NAI		
Chloride		ND	60	mg/Kg	20	12/15/2022 10:19:57 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 8 of 24

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2212579-009

Federal Gas Com 1

Project:

Lab ID:

Analytical Report Lab Order 2212579

Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: NW2-5' Collection Date: 12/8/2022 12:01:00 PM

Received Date: 12/9/2022 7:35:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst: DGH
Diesel Range Organics (DRO)	830	15		mg/Kg	1	12/16/2022 5:24:47 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/16/2022 5:24:47 AM
Surr: DNOP	119	21-129		%Rec	1	12/16/2022 5:24:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1300	25		mg/Kg	5	12/14/2022 4:03:42 PM
Surr: BFB	1750	37.7-212	S	%Rec	5	12/14/2022 4:03:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.31	0.12		mg/Kg	5	12/14/2022 4:03:42 PM
Toluene	ND	0.25		mg/Kg	5	12/14/2022 4:03:42 PM
Ethylbenzene	11	0.25		mg/Kg	5	12/14/2022 4:03:42 PM
Xylenes, Total	54	4.9		mg/Kg	50	12/15/2022 8:33:09 PM
Surr: 4-Bromofluorobenzene	202	70-130	S	%Rec	5	12/14/2022 4:03:42 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/15/2022 11:22:00 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 9 of 24

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Federal Gas Com 1 2212579-010

Project:

Lab ID:

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

Client Sample ID: W1-3' Collection Date: 12/8/2022 12:20:00 PM Received Date: 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	2500	140		mg/Kg	10	12/17/2022 1:12:43 AM
Motor Oil Range Organics (MRO)	ND	460	D	mg/Kg	10	12/17/2022 1:12:43 AM
Surr: DNOP	0	21-129	S	%Rec	10	12/17/2022 1:12:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	4400	490		mg/Kg	100	12/15/2022 8:56:33 PM
Surr: BFB	324	37.7-212	S	%Rec	100	12/15/2022 8:56:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.69	0.12		mg/Kg	5	12/14/2022 4:27:03 PM
Toluene	19	0.24		mg/Kg	5	12/14/2022 4:27:03 PM
Ethylbenzene	11	0.24		mg/Kg	5	12/14/2022 4:27:03 PM
Xylenes, Total	300	9.7		mg/Kg	100	12/15/2022 8:56:33 PM
Surr: 4-Bromofluorobenzene	353	70-130	S	%Rec	5	12/14/2022 4:27:03 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/15/2022 11:34:24 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Federal Gas Com 1 2212579-011

Project:

Lab ID:

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022 Client Sample ID: W1-5' Collection Date: 12/8/2022 12:29:00 PM

Received Date: 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	1500	130		mg/Kg	10	12/17/2022 1:23:05 AM
Motor Oil Range Organics (MRO)	ND	430	D	mg/Kg	10	12/17/2022 1:23:05 AM
Surr: DNOP	0	21-129	S	%Rec	10	12/17/2022 1:23:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	3400	490		mg/Kg	100	12/15/2022 9:19:55 PM
Surr: BFB	263	37.7-212	S	%Rec	100	12/15/2022 9:19:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.93	0.12		mg/Kg	5	12/14/2022 4:50:40 PM
Toluene	21	0.24		mg/Kg	5	12/14/2022 4:50:40 PM
Ethylbenzene	14	0.24		mg/Kg	5	12/14/2022 4:50:40 PM
Xylenes, Total	220	9.7		mg/Kg	100	12/15/2022 9:19:55 PM
Surr: 4-Bromofluorobenzene	271	70-130	S	%Rec	5	12/14/2022 4:50:40 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	70	60		mg/Kg	20	12/15/2022 11:46:49 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 11 of 24

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Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT: HILO	CORP ENERGY	Client Sample ID: W2-5'							
Project: Fede	eral Gas Com 1	Collection Date: 12/8/2022 12:35:00 PM							
Lab ID: 2212	2579-012	Matrix: SOIL	F	Received Date: 12/9/2022 7:35:00 AM					
Analyses		Result	RL	Qual	Units	DF	Date Analyzed		
EPA METHOD	8015M/D: DIESEL RAI	NGE ORGANICS					Analyst: DGH		
Diesel Range O	organics (DRO)	570	14		mg/Kg	1	12/16/2022 5:56:55 AM		
Motor Oil Range	e Organics (MRO)	ND	47		mg/Kg	1	12/16/2022 5:56:55 AM		
Surr: DNOP		122	21-129		%Rec	1	12/16/2022 5:56:55 AM		
EPA METHOD	8015D: GASOLINE RA	NGE					Analyst: RAA		
Gasoline Range	e Organics (GRO)	950	25		mg/Kg	5	12/14/2022 5:14:08 PM		
Surr: BFB		978	37.7-212	S	%Rec	5	12/14/2022 5:14:08 PM		
EPA METHOD	8021B: VOLATILES						Analyst: RAA		
Benzene		0.17	0.12		mg/Kg	5	12/14/2022 5:14:08 PM		
Toluene		11	0.25		mg/Kg	5	12/14/2022 5:14:08 PM		
Ethylbenzene		4.3	0.25		mg/Kg	5	12/14/2022 5:14:08 PM		
Xylenes, Total		52	4.9		mg/Kg	50	12/15/2022 9:43:19 PM		
Surr: 4-Brom	ofluorobenzene	119	70-130		%Rec	5	12/14/2022 5:14:08 PM		
EPA METHOD	300.0: ANIONS						Analyst: NAI		

ND

60

mg/Kg

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Rep

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12/15/2022 11:59:14 PM

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT: HILCORP ENERGY	Client Sample ID: S1-3' Collection Date: 12/8/2022 12:38:00 PM						
Project: Federal Gas Com 1							
Lab ID: 2212579-013	Matrix: SOIL	022 7:35:00 AM					
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	54	15	mg/Kg	1	12/16/2022 6:07:37 AM		
Motor Oil Range Organics (MRO)	66	49	mg/Kg	1	12/16/2022 6:07:37 AM		
Surr: DNOP	120	21-129	%Rec	1	12/16/2022 6:07:37 AM		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/15/2022 10:06:43 PM		
Surr: BFB	91.4	37.7-212	%Rec	1	12/15/2022 10:06:43 PM		
EPA METHOD 8021B: VOLATILES					Analyst: RAA		
Benzene	ND	0.024	mg/Kg	1	12/15/2022 10:06:43 PM		
Toluene	ND	0.049	mg/Kg	1	12/15/2022 10:06:43 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	12/15/2022 10:06:43 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	12/15/2022 10:06:43 PM		
Surr: 4-Bromofluorobenzene	80.8	70-130	%Rec	1	12/15/2022 10:06:43 PM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	ND	60	mg/Kg	20	12/16/2022 12:11:39 AM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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2212579-014

Federal Gas Com 1

Project:

Lab ID:

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

	Client Sample ID: S1-5'
	Collection Date: 12/8/2022 12:40:00 PM
SOIL	Received Date: 12/9/2022 7:35:00 AM
Docult	DI Qual Units DE Data Analyzad

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	120	15		mg/Kg	1	12/19/2022 9:05:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/19/2022 9:05:54 PM
Surr: DNOP	111	21-129		%Rec	1	12/19/2022 9:05:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	210	24		mg/Kg	5	12/14/2022 6:01:15 PM
Surr: BFB	338	37.7-212	S	%Rec	5	12/14/2022 6:01:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	12/14/2022 6:01:15 PM
Toluene	0.27	0.24		mg/Kg	5	12/14/2022 6:01:15 PM
Ethylbenzene	0.70	0.24		mg/Kg	5	12/14/2022 6:01:15 PM
Xylenes, Total	10	0.49		mg/Kg	5	12/14/2022 6:01:15 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	5	12/14/2022 6:01:15 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/16/2022 12:24:03 AM

Matrix:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT:	HILCORP ENERGY		Clie	ent Sar	nple ID:	SE1-3	1		
Project:	Federal Gas Com 1		Collection Date: 12/8/2022 12:52:00 PM						
Lab ID:	2212579-015	Matrix: SOIL Received Date: 12/9/2022					2022 7:35:00 AM		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed		
EPA MET	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst: DGH		
Diesel Ra	ange Organics (DRO)	570	14		mg/Kg	1	12/16/2022 6:28:56 AM		
Motor Oil	l Range Organics (MRO)	ND	46		mg/Kg	1	12/16/2022 6:28:56 AM		
Surr: E	DNOP	128	21-129		%Rec	1	12/16/2022 6:28:56 AM		
EPA MET	THOD 8015D: GASOLINE R	ANGE					Analyst: RAA		
Gasoline	Range Organics (GRO)	1500	25		mg/Kg	5	12/14/2022 6:24:43 PM		
Surr: E	BFB	1300	37.7-212	S	%Rec	5	12/14/2022 6:24:43 PM		
EPA MET	THOD 8021B: VOLATILES						Analyst: RAA		
Benzene		0.32	0.12		mg/Kg	5	12/14/2022 6:24:43 PM		
Toluene		0.65	0.25		mg/Kg	5	12/14/2022 6:24:43 PM		
Ethylben	zene	3.9	0.25		mg/Kg	5	12/14/2022 6:24:43 PM		
Xylenes,	Total	71	5.0		mg/Kg	50	12/15/2022 11:39:54 PM		
Surr: 4	4-Bromofluorobenzene	149	70-130	S	%Rec	5	12/14/2022 6:24:43 PM		
EPA MET	THOD 300.0: ANIONS						Analyst: NAI		
Chloride		ND	60		mg/Kg	20	12/16/2022 12:36:28 AM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 24

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2212579 Date Reported: 12/21/2022

CLIENT: HILCORP ENERGY		Client S	Sample ID:	SE2-3	,
Project: Federal Gas Com 1		Collec	ction Date:	12/8/2	022 12:55:00 PM
Lab ID: 2212579-016	Matrix: SOIL	Rece	ived Date:	12/9/2	022 7:35:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/16/2022 6:39:35 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/16/2022 6:39:35 AM
Surr: DNOP	127	21-129	%Rec	1	12/16/2022 6:39:35 AM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 6:48:18 PM
Surr: BFB	105	37.7-212	%Rec	1	12/14/2022 6:48:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	12/14/2022 6:48:18 PM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 6:48:18 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 6:48:18 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/14/2022 6:48:18 PM
Surr: 4-Bromofluorobenzene	86.8	70-130	%Rec	1	12/14/2022 6:48:18 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	93	60	mg/Kg	20	12/16/2022 12:48:53 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 16 of 24

Analytical Report Lab Order 2212579

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT: HILCORP ENERGY		Client S	Sample ID:	SE1-5	,
Project: Federal Gas Com 1		Colle	ction Date:	12/8/2	022 12:58:00 PM
Lab ID: 2212579-017	Matrix: SOIL	Reco	eived Date:	12/9/2	022 7:35:00 AM
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	42	15	mg/Kg	1	12/16/2022 6:50:13 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/16/2022 6:50:13 AM
Surr: DNOP	120	21-129	%Rec	1	12/16/2022 6:50:13 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA
Gasoline Range Organics (GRO)	46	24	mg/Kg	5	12/14/2022 7:11:49 PM
Surr: BFB	142	37.7-212	%Rec	5	12/14/2022 7:11:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.12	mg/Kg	5	12/14/2022 7:11:49 PM
Toluene	ND	0.24	mg/Kg	5	12/14/2022 7:11:49 PM
Ethylbenzene	0.33	0.24	mg/Kg	5	12/14/2022 7:11:49 PM
Xylenes, Total	3.3	0.49	mg/Kg	5	12/14/2022 7:11:49 PM
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	5	12/14/2022 7:11:49 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	12/16/2022 1:01:18 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2212579** Date Reported: **12/21/2022**

CLIENT: HILCORP ENERGY		Client S	Sample ID:	SE2-5	
Project: Federal Gas Com 1		Colle	ction Date:	12/8/2	2022 1:06:00 PM
Lab ID: 2212579-018	Matrix: SOIL	Rece	eived Date:	12/9/2	2022 7:35:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	74	14	mg/Kg	1	12/16/2022 7:11:19 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/16/2022 7:11:19 AM
Surr: DNOP	116	21-129	%Rec	1	12/16/2022 7:11:19 AM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	75	24	mg/Kg	5	12/14/2022 7:35:18 PM
Surr: BFB	179	37.7-212	%Rec	5	12/14/2022 7:35:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.12	mg/Kg	5	12/14/2022 7:35:18 PM
Toluene	ND	0.24	mg/Kg	5	12/14/2022 7:35:18 PM
Ethylbenzene	0.28	0.24	mg/Kg	5	12/14/2022 7:35:18 PM
Xylenes, Total	3.0	0.49	mg/Kg	5	12/14/2022 7:35:18 PM
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	5	12/14/2022 7:35:18 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 1:13:42 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client:	HILCOI	RP ENERGY	
Project:	Federal	Gas Com 1	
Sample ID:	MB-72117	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 72117	RunNo: 93343
Prep Date:	12/15/2022	Analysis Date: 12/15/2022	SeqNo: 3365240 Units: mg/Kg
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-72117	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 72117	RunNo: 93343
Prep Date:	12/15/2022	Analysis Date: 12/15/2022	SeqNo: 3365241 Units: mg/Kg
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.0	0 0 94.6 90 110
Sample ID:	MB-72119	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 72119	RunNo: 93343
Prep Date:	12/15/2022	Analysis Date: 12/15/2022	SeqNo: 3365242 Units: mg/Kg
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-72119	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 72119	RunNo: 93343
Prep Date:	12/15/2022	Analysis Date: 12/15/2022	SeqNo: 3365243 Units: mg/Kg
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.0	0 0 93.6 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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	ILCORP ENERGY ederal Gas Com 1	7					
Sample ID: LCS-7202	4 SampTy	/pe: LCS	Tes	tCode: EPA Metho	d 8015M/D: Diesel Ran	ge Organics	
Client ID: LCSS	Batch	ID: 72024	F	RunNo: 93232			
Prep Date: 12/12/20	22 Analysis Da	ate: 12/13/2022	S	SeqNo: 3360354	Units: mg/Kg		
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC LowLimi	it HighLimit %RPD	0 RPDLimit	Qual
Diesel Range Organics (DR	D) 50	15 50.00	0 0	99.0 64.4	4 127		
Surr: DNOP	6.8	5.000)	136 2 ⁻	1 129		S
Sample ID: MB-72024	SampTy	/pe: MBLK	Tes	tCode: EPA Metho	d 8015M/D: Diesel Ran	ge Organics	
Client ID: PBS	Batch	ID: 72024	F	RunNo: 93232			
Prep Date: 12/12/20	22 Analysis Da	ate: 12/13/2022	S	SeqNo: 3360355	Units: mg/Kg		
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC LowLimi	it HighLimit %RPE	RPDLimit	Qual
Diesel Range Organics (DR) ND	15					
Motor Oil Range Organics (M		50					
Surr: DNOP	12	10.00)	122 2 ²	1 129		
Sample ID: LCS-7204	5 SampTy	/pe: LCS	Tes	tCode: EPA Metho	d 8015M/D: Diesel Ran	ge Organics	
Client ID: LCSS	Batch	ID: 72046	F	RunNo: 93357			
Prep Date: 12/13/202	22 Analysis Da	ate: 12/16/2022	5	SeqNo: 3366576	Units: mg/Kg		
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC LowLimi	it HighLimit %RPD	0 RPDLimit	Qual
Diesel Range Organics (DR	0) 45	15 50.00	0 0	90.3 64.4	4 127		
Surr: DNOP	5.9	5.000)	119 2 ⁻	1 129		
Sample ID: MB-72046	SampTy	/pe: MBLK	Tes	tCode: EPA Metho	d 8015M/D: Diesel Ran	ge Organics	
Client ID: PBS	Batch	ID: 72046	F	RunNo: 93357			
Prep Date: 12/13/20	22 Analysis Da	ate: 12/16/2022	S	SeqNo: 3366579	Units: mg/Kg		
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC LowLimi	it HighLimit %RPD	0 RPDLimit	Qual
Diesel Range Organics (DR	,	15					
Motor Oil Range Organics (N	,	50					
Surr: DNOP	13	10.00)	129 2 [°]	1 129		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client: Project:		P ENERG Gas Com 1									
Sample ID:	lcs-71991	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	1	
Client ID:	LCSS	Batcl	h ID: 719	991	F	RunNo: 9 :	3214				
Prep Date:	12/9/2022	Analysis E	Date: 12	2/12/2022	S	SeqNo: 3	359252	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2200		1000		218	37.7	212			S
Sample ID:	mb-71991	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	l.	
Client ID:	PBS	Batcl	h ID: 719	991	F	RunNo: 9 :	3214				
Prep Date:	12/9/2022	Analysis E	Date: 12	2/12/2022	5	SeqNo: 3	359253	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		970		1000		97.2	37.7	212			
Sample ID:	lcs-71997	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	!	
Client ID:	LCSS	Batcl	h ID: 719	997	F	RunNo: 9 :	3214				
Prep Date:	12/9/2022	Analysis E	Date: 12	2/12/2022	Ś	SeqNo: 3	359276	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge Organics (GRO)	25	5.0	25.00	0	99.5	72.3	137			
Surr: BFB		2100		1000		210	37.7	212			
Sample ID:	mb-71997	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Sample ID: Client ID:	mb-71997 PBS	•	Гуре: МЕ h ID: 71 9			tCode: Ef RunNo: 9 :		8015D: Gasol	ine Range	1	
•	PBS	•	h ID: 719	997	F		3214	8015D: Gasol Units: mg/K	-	!	
Client ID: Prep Date: Analyte	PBS 12/9/2022	Batcl	h ID: 719	997 2/12/2022	F	RunNo: 9 :	3214		-	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang	PBS	Batcl Analysis E Result ND	h ID: 719 Date: 12	997 2/12/2022 SPK value	F	RunNo: 9: SeqNo: 3: %REC	3214 359277 LowLimit	Units: mg/K HighLimit	g		Qual
Client ID: Prep Date: Analyte	PBS 12/9/2022	Batcl Analysis I Result	h ID: 719 Date: 12 PQL	997 2/12/2022	F	RunNo: 9: SeqNo: 3:	3214 359277	Units: mg/K	g		Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	PBS 12/9/2022	Batcl Analysis E Result ND 940 SampT	h ID: 71 9 Date: 12 PQL 5.0	997 2/12/2022 SPK value 1000	F SPK Ref Val	RunNo: 9: SeqNo: 3: %REC 94.1	3214 359277 LowLimit 37.7 PA Method	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS	Batcl Analysis I Result ND 940 Samp1 Batcl	h ID: 71 Date: 12 <u>PQL</u> 5.0 Fype: LC h ID: 72	997 2/12/2022 SPK value 1000 S 007	F SPK Ref Val	RunNo: 9: SeqNo: 3: %REC 94.1	3214 359277 LowLimit 37.7 PA Method	Units: mg/K HighLimit 212	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS	Batcl Analysis E Result ND 940 SampT	h ID: 71 Date: 12 <u>PQL</u> 5.0 Fype: LC h ID: 72	997 2/12/2022 SPK value 1000 S 007	F SPK Ref Val Tes F	RunNo: 9: SeqNo: 3: %REC 94.1	3214 359277 LowLimit 37.7 PA Method 3289	Units: mg/K HighLimit 212	g %RPD ine Range	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022	Batcl Analysis I Result ND 940 Samp1 Batcl Analysis I Result	h ID: 719 Date: 12 PQL 5.0 Type: LC h ID: 720 Date: 12 PQL	997 2/12/2022 SPK value 1000 S 007 2/14/2022 SPK value	F SPK Ref Val Tes SPK Ref Val	RunNo: 9: SeqNo: 3: <u>%REC</u> 94.1 ttCode: EF RunNo: 9: SeqNo: 3: %REC	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit	g %RPD ine Range	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS	Batcl Analysis E Result ND 940 SampT Batcl Analysis E Result 24	PQL 5.0 Fype: LC Date: 12	997 2/12/2022 SPK value 1000 SS 007 2/14/2022 SPK value 25.00	F SPK Ref Val Tes F	RunNo: 9: SeqNo: 3: %REC 94.1 ttCode: EF RunNo: 9: SeqNo: 3: %REC 96.6	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137	g %RPD ine Range g	RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022	Batcl Analysis I Result ND 940 Samp1 Batcl Analysis I Result 24 1800	Function of the format is a first second sec	997 2/12/2022 SPK value 1000 SS 007 2/14/2022 SPK value 25.00 1000	F SPK Ref Val Tes SPK Ref Val 0	RunNo: 9: SeqNo: 3: %REC 94.1 ttCode: EF RunNo: 9: SeqNo: 3: %REC 96.6 176	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3 37.7	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137 212	g %RPD ine Range g %RPD	RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022 ge Organics (GRO) mb-72007	Batcl Analysis I Result ND 940 SampT Batcl Analysis I Result 24 1800 SampT	h ID: 719 Date: 12 PQL 5.0 Type: LC Date: 12 PQL 5.0 Type: ME	997 2/12/2022 SPK value 1000 S 007 2/14/2022 SPK value 25.00 1000	F SPK Ref Val Tes SPK Ref Val 0 Tes	RunNo: 9: SeqNo: 3: 94.1 HCOde: EF RunNo: 9: SeqNo: 3: %REC 96.6 176	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3 37.7 PA Method	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137	g %RPD ine Range g %RPD	RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022 ge Organics (GRO) mb-72007 PBS	Batcl Analysis I Result ND 940 Samp1 Batcl Analysis I Result 24 1800 Samp1 Batcl	h ID: 719 Date: 12 PQL 5.0 Fype: LC h ID: 720 Date: 12 PQL 5.0 Fype: ME h ID: 720	997 2/12/2022 SPK value 1000 S 007 2/14/2022 SPK value 25.00 1000 BLK 007	F SPK Ref Val Tes SPK Ref Val 0 Tes F	RunNo: 9: SeqNo: 3: %REC 94.1 ttCode: EF RunNo: 9: SeqNo: 3: %REC 96.6 176 ttCode: EF RunNo: 9:	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3 37.7 PA Method 3289	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137 212 8015D: Gasol	g %RPD ine Range %RPD ine Range	RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022 ge Organics (GRO) mb-72007 PBS	Batcl Analysis I Result ND 940 SampT Batcl Analysis I Result 24 1800 SampT	h ID: 719 Date: 12 PQL 5.0 Fype: LC h ID: 720 Date: 12 PQL 5.0 Fype: ME h ID: 720	997 2/12/2022 SPK value 1000 S 007 2/14/2022 SPK value 25.00 1000 BLK 007	F SPK Ref Val Tes SPK Ref Val 0 Tes F	RunNo: 9: SeqNo: 3: 94.1 HCOde: EF RunNo: 9: SeqNo: 3: %REC 96.6 176	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3 37.7 PA Method 3289	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137 212	g %RPD ine Range %RPD ine Range	RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022 ge Organics (GRO) mb-72007 PBS 12/9/2022	Batcl Analysis I ND 940 Samp1 Batcl Analysis I Result 24 1800 Samp1 Batcl Analysis I Result	h ID: 719 A ID: 719 Date: 12 PQL 5.0 Type: LC Type: LC Date: 12 PQL 5.0 Type: LC Date: 12 PQL 5.0 Type: ME Function 12 Date: 12	997 2/12/2022 SPK value 1000 S 007 2/14/2022 SPK value 25.00 1000 BLK 007 2/14/2022	F SPK Ref Val Tes SPK Ref Val 0 Tes F	RunNo: 9: SeqNo: 3: %REC 94.1 ttCode: EF RunNo: 9: SeqNo: 3: %REC 96.6 176 ttCode: EF RunNo: 9:	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3 37.7 PA Method 3289	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137 212 8015D: Gasol	g %RPD ine Range %RPD ine Range	RPDLimit	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	PBS 12/9/2022 ge Organics (GRO) LCS-72007 LCSS 12/9/2022 ge Organics (GRO) mb-72007 PBS	Batcl Analysis I ND 940 Samp1 Batcl Analysis I Result 24 1800 Samp1 Batcl Analysis I	h ID: 719 PQL 5.0 Type: LC h ID: 720 Oate: 12 PQL 5.0 Type: LC Date: 12 PQL 5.0 Type: ME full 720 Date: 12 Type: ME h ID: 720 Date: 12	997 2/12/2022 SPK value 1000 S 007 2/14/2022 SPK value 25.00 1000 BLK 007 2/14/2022	F SPK Ref Val Tes SPK Ref Val 0 Tes F S	RunNo: 9: SeqNo: 3: 9REC 94.1 ttCode: EF RunNo: 9: SeqNo: 3: 96.6 176 ttCode: EF RunNo: 9: SeqNo: 3:	3214 359277 LowLimit 37.7 PA Method 3289 362708 LowLimit 72.3 37.7 PA Method 3289 362710	Units: mg/K HighLimit 212 8015D: Gasol Units: mg/K HighLimit 137 212 8015D: Gasol Units: mg/K	g %RPD ine Range %RPD ine Range g	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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21-Dec-22

Client: Project:		RP ENERGY Gas Com 1								
Sample ID:	lcs-72034	SampType: LC	S	Tes	tCode: EP	A Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch ID: 72	034	F	RunNo: 93	307				
Prep Date:	12/12/2022	Analysis Date: 12	2/15/2022	S	SeqNo: 33	63273	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1800	1000		182	37.7	212			
Sample ID:	mb-72034	SampType: ME	BLK	Tes	tCode: EP	A Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch ID: 72	034	F	RunNo: 93					
Prep Date:	12/12/2022	Analysis Date: 12	2/15/2022	S	SeqNo: 33	63274	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		890	1000		89.0	37.7	212			
Sample ID:	lcs-72038	SampType: LC	S	Tes	tCode: EP	A Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch ID: 72	038	F	RunNo: 93	307				
Prep Date:	12/13/2022	Analysis Date: 12	2/16/2022	S	SeqNo: 33	65337	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1800	1000		181	37.7	212			
Sample ID:	mb-72038	SampType: ME	BLK	Tes	tCode: EP	A Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch ID: 72	038	F	RunNo: 93	307				
Prep Date:	12/13/2022	Analysis Date: 12	2/16/2022	S	SeqNo: 33	65338	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		830	1000		82.6	37.7	212			

Qualifiers:

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- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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21-Dec-22

Client: HILCON	RP ENERGY										
Project: Federal	Gas Com 1										
Sample ID: Ics-71991	SampType: LC	s	Tes	tCode: EP	A Method	8021B: Volati	les				
Client ID: LCSS	Batch ID: 71	991	F	RunNo: 93	214						
Prep Date: 12/9/2022	Analysis Date: 1	2/12/2022	S	SeqNo: 33	59305	Units: %Rec	:				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	1.0	1.000		101	70	130					
Sample ID: mb-71991	SampType: M	BLK	Tes	tCode: EP	A Method	8021B: Volati	les				
Client ID: PBS	Batch ID: 71	991	F	RunNo: 93	214						
Prep Date: 12/9/2022	Analysis Date: 1	2/12/2022	S	SeqNo: 33	59306	Units: %Rec	;				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	1.0	1.000		102	70	130					
Sample ID: Ics-71997	SampType: LC	s	Tes	tCode: EP	A Method	8021B: Volati	les				
Client ID: LCSS	Batch ID: 71	997	RunNo: 93214								
Prep Date: 12/9/2022	Analysis Date: 1	2/12/2022	S	SeqNo: 33	59329	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0 0.025	1.000	0	101	80	120					
Toluene	1.0 0.050	1.000	0	101	80	120					
Ethylbenzene	1.0 0.050	1.000	0	99.8	80	120					
Xylenes, Total	3.0 0.10	3.000	0	99.1	80	120					
Surr: 4-Bromofluorobenzene	0.98	1.000		98.5	70	130					
Sample ID: mb-71997	SampType: M	BLK	Tes	tCode: EP	A Method	8021B: Volati	les				
Client ID: PBS	Batch ID: 71	997	F	RunNo: 93	214						
Prep Date: 12/9/2022	Analysis Date: 1	2/12/2022	S	SeqNo: 33	59330	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND 0.025										
Toluene	ND 0.050										
Ethylbenzene	ND 0.050										
Xylenes, Total	ND 0.10 0.97	1 000		07.2	70	130					
Surr: 4-Bromofluorobenzene	0.97	1.000		97.3	70	130					
Sample ID: Ics-72007	SampType: LC					8021B: Volati	les				
Client ID: LCSS	Batch ID: 72			RunNo: 93							
Prep Date: 12/9/2022	Analysis Date: 1	2/14/2022		SeqNo: 33	62761	Units: mg/K	g				
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.95 0.025	1.000	0	95.4	80	120					
Toluene	0.97 0.050	1.000	0	97.3	80	120					
Ethylbenzene	0.95 0.050	1.000	0	95.4	80	120					
Xylenes, Total	2.9 0.10	3.000	0	95.7	80	120					

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

2212579

21-Dec-22

Client:	HILCOR	P ENERG	Y										
Project:	Federal C	Gas Com 1											
Comple ID: 1	- 70007	Comp		•	Taa	tCodor F		0004D Valadi					
Sample ID: I			Гуре: LC h ID: 72(8021B: Volatil	es				
	.CSS					RunNo: 93		linito, mar///					
Prep Date:	12/9/2022	Analysis [Date: 12	/14/2022		SeqNo: 3	362761	Units: mg/Kg	9				
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromot	luorobenzene	0.89		1.000		88.7	70	130					
Sample ID: n	n b-72007	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volatil	es				
Client ID: F	BS	Batcl	h ID: 72	007	F	RunNo: 93	3289						
Prep Date:	12/9/2022	Analysis [Date: 12	2/14/2022	S	SeqNo: 3	362763	Units: mg/Kg	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		ND	0.025										
Toluene		ND	0.050										
Ethylbenzene Xylenes, Total		ND ND	0.050 0.10										
Surr: 4-Bromot	luorobenzene	0.85	0.10	1.000		85.2	70	130					
		0.00		1.000		00.2	10	100					
Sample ID: L	.CS-72034	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volatil	es				
Client ID: L	CSS	Batcl	h ID: 720	034	RunNo: 93307								
Prep Date:	12/12/2022	Analysis E	Date: 12	2/15/2022	S	SeqNo: 3	363278	Units: %Rec					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromot	luorobenzene	0.89		1.000		88.6	70	130					
Sample ID: n	nb-72034	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volatil	es				
Client ID: F	BS	Batcl	h ID: 720	034	F	RunNo: 93	3307						
Prep Date:	12/12/2022	Analysis [Date: 12	2/15/2022	S	SeqNo: 33	363279	Units: %Rec					
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromot	luorobenzene	0.89	FQL	1.000	SFR Rei Vai	89.3	20wLiniit 70	130	/0ICF D	KF DLIIIII	Quai		
Sample ID: L			Type: LC					8021B: Volatil	es				
Client ID: L			h ID: 720			RunNo: 93							
Prep Date:	12/13/2022	Analysis [Date: 12	2/16/2022	2	SeqNo: 3	365373	Units: %Rec					
Analyte	_	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromot	luorobenzene	0.87		1.000		86.8	70	130					
Sample ID: n	nb-72038	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volatil	es				
Client ID: F	BS	Batcl	h ID: 720	038	F	RunNo: 93	3307						
Prep Date:	12/13/2022	Analysis I	Date: 12	2/16/2022	S	SeqNo: 33	365375	Units: %Rec					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromot	luorobenzene	0.82		1.000		81.5	70	130					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 24

WO#: 2212579 21-Dec-22

ANAL	RONMENTAL YSIS RATORY	Hall Environmenta All TEL: 505-345-397 Website: www.h	490 buquero 5 FAX:	01 Hawkii que, NM 8 : 505-345-	ns NE 17109 San 14107	nple Log-In C	heck List
Client Name:	HILCORP ENERGY	Work Order Numbe	r: 221	2579		RcptNo:	1
Received By: Completed By: Reviewed By:	Juan Rojas Tracy Casarrubias JA 12-9-72	12/9/2022 7:35:00 AN 12/9/2022 8:53:53 AN			Hunnes B	ил.	
Chain of Cus	tody						
	ustody complete?		Yes		No 🗌	Not Present	
2. How was the	sample delivered?		Cou	<u>irier</u>			
Log In 3. Was an attem	npt made to cool the sample:	s?	Yes		No 🗌	na 🗌	
4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes		No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Yes		No 🗌		
6. Sufficient sam	ple volume for indicated test	(s)?	Yes		No 🗌		
7. Are samples ((except VOA and ONG) prop	erly preserved?	Yes	\checkmark	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗹	na 🗆	
9. Received at le	east 1 vial with headspace <1	/4" for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sar	nple containers received bro	ken?	Yes		No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes		No 🗌	bottles checked for pH: (<2 or	>12 unless noted)
	correctly identified on Chain of	of Custody?	Yes		No 🗌	Adjusted?	
	t analyses were requested?		Yes		No 🗌		
	ng times able to be met? ustomer for authorization.)		Yes		No 🗌	Checked by:	Jn12/9/22
	ling (if applicable)						
15. Was client no	otified of all discrepancies wit	h this order?	Yes		No 🗌	NA 🗹	
Person By Who Regard	,	Date: Via:	eM	lail 🗌 f	Phone 🗌 Fax	In Person	
	nstructions:						j
16. Additional re	marks:						
17. <u>Cooler Infor</u> Cooler No 1	Temp °C Condition	Seal Intact Seal No	Seal D	Date	Signed By		
1		I		3		1	

Released to Imaging: 10/6/2023 10:13:35 AM

Page 46 of 79

Received	Nair:	3/1-C02	stody Record	Turn-Around Time:															NN		> NTA	ige 47 of	` <i>79</i>
Client:	Hilcor	o Energ	y		andard		Rush														το		
				<u> </u>	t Name								www										
Mailing	Address		R 3100	Fede	ral Ga	s Con	n 1			40	01 LI								VM 8	7100			
		Aztec	NM 87410	Projec	:t #:								45-39			•			5-410				
	505	599.34								16	9. 50	10-34	40-38		1.00	- Cont - 1	Contract of the local division of the local	uest					Ĺ
Phone #			· · · · · · · · · · · · · · · · · · ·	Drojoc	t Mana	aor:				2		1						-					
		etruiillo	<u>an@hilcorp.com</u> @hilcorp.com	1 -		-			(8021)	/ MRO)	s.		S		۲ <u>م</u>			sen					
QA/QC F		Gaujino	Level 4 (Full Validation)	F	asho 1	l rujillo			s (8	N O	PCB's		SIN		ଷ୍ଣ			TAB					
Accredit			mpliance	Samp	ler: F T	ruillo			TMB's	DRO		=	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	å			Total Coliform (Present/Absent)					
		□ Other		On Ice		2 Yes		□ No		l ő	s/8(504.	۶	s	A E		(A)	Prese					
				Sec.	oolers:	1			MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	310	etal	\$	8260 (VOA)) 	E					
				Coole	r Temp	Including C	F): . k	ot 6.2=1.8		015[esti	Meth	by 8	8 N	制	0	Sen	Self					
				Conta	iner	Preser	vative		BTEX/	H:8	81 F	B	Hs	Ϋ́	Ч	00	70 (tal (
Date	Time	Matrix	Sample Name	Туре	and #	Туре		2212579	E	Ē	8	비	4	$\underline{\kappa}$	0	8	82	P		_	_		-
12/8/22	11 00A	¥Soil	E1-5'	4oz g	lass/1	co	ld	001															
	1107.4		EZ.S'		\		ų	002							1								
	11:15A		E1-3'					(103															
	11:22A	\square	NE 1- 3'					hõy															
	11:30A		NE 1-5'		Ι			200															
	M : 40A		NE 2-5'					004															
	11:45A	5	NW 1-3'					007												1			
	11:53A		NW 1-5'					008													_		
	1201P		NW Z-5'					009															
	12201		W 1-3'					010															
	1229P		w 1-5'		1			011															
	12354	71	W2-5'		*	2		012	1						Ы								
Date:	Time: 1540	Relinquist	ed by:	Receiv	ed by:	Via	69	Date Time	Rei	mark	(S:												
Date:	Time:	Relinquish	ed by:	Receiv	ed by:	Via:	42	Date Time	1														
148/22	1819	\square	1-W00		2/	- (00	nier	12/11/27:35	+													_	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received	hraff?	347CH	stody Record	Turn-Around	Time:					н		E	NV	TE	201	NM	EN		e 48 of 79
Client:	Hilcor	Energ	у	Standard	🗆 Rush	1				A	NA	LYS	SIS	5 L	AB	BOF	TAS	OR	Y
				Project Nam							ww.h								
Mailing	Address:	202 0	R 3100	Federal G	as Com 1			10	01 H							VM 87	109		
		Aztec	NM 87410	Project #:			1						•						
	4 505	.599.34		-					Tel. 505-345-3975 Fax 505-345-4107 Analysis Request										
Phone # email or			an@hilcorp.com	Project Man	ader:			6		T		-							
	Package	etruiillo	@hilcorp.com	1 '	•		(8021)	MRO	3's	9	Σ Σ	S			Dser				
□ Stan			Level 4 (Full Validation)	Fasho	Trujillo		0	DRO / MRO)	PCB's			۱d			ItAt				
Accredit			mpliance	Sampler: F	Truiillo		TMB'	R	082	,	PAHs by 8310 or 82/0SIMS RCRA 8 Metals	CI, F, Br, NO., NO., PO., SO.			Total Coliform (Present/Absent)				
				On Ice:	-B-Yes	□ No		8 2	es/8	204	s or			(YO	Ē.				
	(Type)			# of Coolers		11-2-10	MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 c RCRA 8 Metals	₹	F	8270 (Semi-VOA)	form				
				Cooler Tem	J(including CF).	.6+0.2= 1.8		015	Pest	Met	A a	串	8260 (VOA)	(Ser	Colit				
				Container	Preservative	HEAL No.	BTEX /	9:H	81	B	AHS CRA	4	560	270	otal				
Date	Time	Matrix	Sample Name	Type and #	Туре	2212579	8	Ē	8			O	8	8	Ĕ	-	_		
12/8/22	123817	Soil	51-3'	4oz glass/1	cold	013													
	1240P		51-5'			014	1				_	\parallel							
4	12528	\sum	5E 1-3'			015													
	1255F		5E 2-3'			016													
7	1258A	(SE 1-5'		6.32	617													
\mathcal{L}	106 P	l	SE 2-5'	\downarrow		010	4	*				ł							
						(
						U													
				1			1												
							-					-	1						
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Date:	Time:	Relinquish	ed by:	Received by:	Via:	Date Time	Rer	nark	s:				J.,	I	I		J		
Date: /2/8/22	1540	1/2	MGA	1 Sht	ha and	12/8/22)540													
Date:	Time:	Relinquish	ed by:	Received by:	Via:	Date Time	1												
12 8 22	1819	L'I	V Wast	10	Acouri	er 12/9/2273	5	-											

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



April 12, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Federal GC 1

OrderNo.: 2304255

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 14 sample(s) on 4/6/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023 Client Sample ID: PH01 3' Collection Date: 4/3/2023 8:15:00 AM

regeen reactar de r							
Lab ID: 2304255-001	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/10/2023 8:11:38 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/10/2023 8:11:38 PM		
Surr: DNOP	99.8	69-147	%Rec	1	4/10/2023 8:11:38 PM		
EPA METHOD 8015D: GASOLIN	E RANGE				Analyst: CCM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/8/2023 6:31:00 AM		
Surr: BFB	89.9	37.7-212	%Rec	1	4/8/2023 6:31:00 AM		
EPA METHOD 8021B: VOLATILE	S				Analyst: CCM		
Benzene	ND	0.025	mg/Kg	1	4/8/2023 6:31:00 AM		
Toluene	ND	0.050	mg/Kg	1	4/8/2023 6:31:00 AM		
Ethylbenzene	ND	0.050	mg/Kg	1	4/8/2023 6:31:00 AM		
Xylenes, Total	ND	0.099	mg/Kg	1	4/8/2023 6:31:00 AM		
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	4/8/2023 6:31:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: SNS		
Chloride	ND	60	mg/Kg	20	4/11/2023 4:18:08 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 19

*

Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH01 5' Collection Date: 4/3/2023 8:20:00 AM

Lab ID: 2304255-002	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM				
Analyses	Result	RL Qual Units D		DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/10/2023 8:22:30 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/10/2023 8:22:30 PM	
Surr: DNOP	97.5	69-147	%Rec	1	4/10/2023 8:22:30 PM	
EPA METHOD 8015D: GASOLINE	RANGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/8/2023 6:52:00 AM	
Surr: BFB	89.7	37.7-212	%Rec	1	4/8/2023 6:52:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	4/8/2023 6:52:00 AM	
Toluene	ND	0.050	mg/Kg	1	4/8/2023 6:52:00 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	4/8/2023 6:52:00 AM	
Xylenes, Total	ND	0.099	mg/Kg	1	4/8/2023 6:52:00 AM	
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	4/8/2023 6:52:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	ND	60	mg/Kg	20	4/11/2023 4:30:33 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 2 of 19

*

Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH02 3' Collection Date: 4/3/2023 8:25:00 AM Received Date: 4/6/2023 6:15:00 AM

Lab ID: 2304255-003	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/10/2023 8:33:22 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/10/2023 8:33:22 PM	
Surr: DNOP	99.1	69-147	%Rec	1	4/10/2023 8:33:22 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/8/2023 7:14:00 AM	
Surr: BFB	89.9	37.7-212	%Rec	1	4/8/2023 7:14:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	4/8/2023 7:14:00 AM	
Toluene	ND	0.050	mg/Kg	1	4/8/2023 7:14:00 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	4/8/2023 7:14:00 AM	
Xylenes, Total	ND	0.10	mg/Kg	1	4/8/2023 7:14:00 AM	
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	4/8/2023 7:14:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	ND	60	mg/Kg	20	4/11/2023 4:42:57 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 3 of 19

.

Ethylbenzene

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2304255

Date Reported: 4/12/2023

4/8/2023 7:36:00 AM

4/8/2023 7:36:00 AM

4/8/2023 7:36:00 AM

4/11/2023 5:20:11 PM

Analyst: SNS

CLIENT: HILCORP ENERGY	Client Sample ID: PH02 5'						
Project: Federal GC 1	Collection Date: 4/3/2023 8:30:00 AM						
Lab ID: 2304255-004	Matrix: SOIL	Rece	eived Date:	4/6/20	023 6:15:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/10/2023 8:44:14 PM		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/10/2023 8:44:14 PM		
Surr: DNOP	96.9	69-147	%Rec	1	4/10/2023 8:44:14 PM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/8/2023 7:36:00 AM		
Surr: BFB	93.0	37.7-212	%Rec	1	4/8/2023 7:36:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	ND	0.024	mg/Kg	1	4/8/2023 7:36:00 AM		
Toluene	ND	0.048	mg/Kg	1	4/8/2023 7:36:00 AM		

ND

ND

89.9

ND

0.048

0.096

70-130

60

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 19

Federal GC 1

2304255-005

Project:

Lab ID:

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH03 3' Collection Date: 4/3/2023 8:35:00 AM Received Date: 4/6/2023 6:15:00 AM

			al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O				Analyst: DGH	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/10/2023 8:55:04 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	4/10/2023 8:55:04 PM
Surr: DNOP	94.3	69-147	%Rec	1	4/10/2023 8:55:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/8/2023 7:57:00 AM
Surr: BFB	97.7	37.7-212	%Rec	1	4/8/2023 7:57:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCN
Benzene	ND	0.024	mg/Kg	1	4/8/2023 7:57:00 AM
Toluene	ND	0.049	mg/Kg	1	4/8/2023 7:57:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/8/2023 7:57:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/8/2023 7:57:00 AM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	4/8/2023 7:57:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	210	60	mg/Kg	20	4/11/2023 5:32:36 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

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Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH03 5' Collection Date: 4/3/2023 8:40:00 AM Received Date: 4/6/2023 6:15:00 AM

Lab ID: 2304255-006	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/10/2023 9:05:55 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/10/2023 9:05:55 PM	
Surr: DNOP	91.3	69-147	%Rec	1	4/10/2023 9:05:55 PM	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/8/2023 8:19:00 AM	
Surr: BFB	94.6	37.7-212	%Rec	1	4/8/2023 8:19:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.024	mg/Kg	1	4/8/2023 8:19:00 AM	
Toluene	ND	0.049	mg/Kg	1	4/8/2023 8:19:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	4/8/2023 8:19:00 AM	
Xylenes, Total	ND	0.097	mg/Kg	1	4/8/2023 8:19:00 AM	
Surr: 4-Bromofluorobenzene	88.5	70-130	%Rec	1	4/8/2023 8:19:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	160	60	mg/Kg	20	4/11/2023 5:45:01 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH04 3' Collection Date: 4/3/2023 8:45:00 AM Received Date: 4/6/2023 6:15:00 AM

Lab ID: 2304255-007	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/10/2023 9:16:42 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/10/2023 9:16:42 PM	
Surr: DNOP	94.9	69-147	%Rec	1	4/10/2023 9:16:42 PM	
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/8/2023 8:40:00 AM	
Surr: BFB	94.7	37.7-212	%Rec	1	4/8/2023 8:40:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.024	mg/Kg	1	4/8/2023 8:40:00 AM	
Toluene	ND	0.047	mg/Kg	1	4/8/2023 8:40:00 AM	
Ethylbenzene	ND	0.047	mg/Kg	1	4/8/2023 8:40:00 AM	
Xylenes, Total	ND	0.095	mg/Kg	1	4/8/2023 8:40:00 AM	
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	4/8/2023 8:40:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	96	60	mg/Kg	20	4/11/2023 5:57:26 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH04 5' Collection Date: 4/3/2023 8:50:00 AM

Lab ID: 2304255-008	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM				
Analyses	Result	RL Qual Units D		DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/10/2023 9:27:30 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/10/2023 9:27:30 PM	
Surr: DNOP	91.9	69-147	%Rec	1	4/10/2023 9:27:30 PM	
EPA METHOD 8015D: GASOLINE	RANGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/8/2023 9:02:00 AM	
Surr: BFB	94.1	37.7-212	%Rec	1	4/8/2023 9:02:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	4/8/2023 9:02:00 AM	
Toluene	ND	0.050	mg/Kg	1	4/8/2023 9:02:00 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	4/8/2023 9:02:00 AM	
Xylenes, Total	ND	0.099	mg/Kg	1	4/8/2023 9:02:00 AM	
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	4/8/2023 9:02:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	110	60	mg/Kg	20	4/11/2023 8:26:22 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 8 of 19

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Federal GC 1 2304255-009

Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2304255

Date Reported: 4/12/2023

	Client Sample ID: PH05 5'	
	Collection Date: 4/3/2023 8:55:00 AM	
Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM	
Decult	DI Quel Units DE Date Analyzed	

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	34	9.8	mg/Kg	1	4/10/2023 9:38:17 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/10/2023 9:38:17 PM
Surr: DNOP	94.3	69-147	%Rec	1	4/10/2023 9:38:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	4/8/2023 9:23:00 AM
Surr: BFB	120	37.7-212	%Rec	5	4/8/2023 9:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.12	mg/Kg	5	4/8/2023 9:23:00 AM
Toluene	ND	0.25	mg/Kg	5	4/8/2023 9:23:00 AM
Ethylbenzene	ND	0.25	mg/Kg	5	4/8/2023 9:23:00 AM
Xylenes, Total	ND	0.50	mg/Kg	5	4/8/2023 9:23:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	5	4/8/2023 9:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	4/11/2023 8:38:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Federal GC 1 2304255-010

Project:

Lab ID:

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH05 7'
Collection Date: 4/3/2023 9:00:00 AM
Received Date: 4/6/2023 6:15:00 AM

Result	RL Qu	al Units	DF	Date Analyzed
GANICS				Analyst: DGH
ND	10	mg/Kg	1	4/10/2023 9:49:03 PM
ND	50	mg/Kg	1	4/10/2023 9:49:03 PM
95.1	69-147	%Rec	1	4/10/2023 9:49:03 PM
				Analyst: CCM
ND	4.8	mg/Kg	1	4/10/2023 9:22:00 PM
90.5	37.7-212	%Rec	1	4/10/2023 9:22:00 PM
				Analyst: CCM
ND	0.024	mg/Kg	1	4/10/2023 9:22:00 PM
ND	0.048	mg/Kg	1	4/10/2023 9:22:00 PM
ND	0.048	mg/Kg	1	4/10/2023 9:22:00 PM
ND	0.097	mg/Kg	1	4/10/2023 9:22:00 PM
87.9	70-130	%Rec	1	4/10/2023 9:22:00 PM
				Analyst: SNS
ND	60	mg/Kg	20	4/11/2023 8:51:11 PM
	GANICS ND 95.1 ND 90.5 ND ND ND ND ND 87.9	GANICS ND 10 ND 50 95.1 69-147 ND 4.8 90.5 37.7-212 ND 0.024 ND 0.048 ND 0.048 ND 0.097 87.9 70-130 69.130 69.147	GANICS ND 10 mg/Kg ND 50 mg/Kg 95.1 69-147 %Rec ND 4.8 mg/Kg 90.5 37.7-212 %Rec ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.097 mg/Kg 87.9 70-130 %Rec	GANICS ND 10 mg/Kg 1 95.1 69-147 %Rec 1 ND 4.8 mg/Kg 1 90.5 37.7-212 %Rec 1 ND 0.024 mg/Kg 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.097 mg/Kg 1 87.9 70-130 %Rec 1

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 19

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023 Client Sample ID: PH06 3

Project: Federal GC 1 Collection Date: 4/3/2023 9:05:00 AM Lab ID: 2304255-011 Matrix: SOIL Received Date: 4/6/2023 6:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 4/10/2023 9:59:48 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/10/2023 9:59:48 PM Surr: DNOP 105 69-147 %Rec 1 4/10/2023 9:59:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 4/10/2023 9:44:00 PM mg/Kg 1 Surr: BFB 91.0 37.7-212 %Rec 1 4/10/2023 9:44:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/10/2023 9:44:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/10/2023 9:44:00 PM Ethylbenzene ND 0.047 mg/Kg 1 4/10/2023 9:44:00 PM Xylenes, Total ND 0.094 mg/Kg 4/10/2023 9:44:00 PM 1 Surr: 4-Bromofluorobenzene 87.0 70-130 %Rec 1 4/10/2023 9:44:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 4/11/2023 9:03:35 PM 77 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated S

Analyte detected in the associated Method Blank в

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 11 of 19

Project: Federal GC 1

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH06 5' Collection Date: 4/3/2023 9:10:00 AM nived Data: 1/6/2022 6.15.00 AM ъ

Lab ID: 2304255-012	Matrix: SOIL	Received Date: 4/6/2023 6:15:00 AM									
Analyses	Result RL Qual Units				Date Analyzed						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH						
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/10/2023 10:10:32 PM						
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/10/2023 10:10:32 PM						
Surr: DNOP	95.6	69-147	%Rec	1	4/10/2023 10:10:32 PM						
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: CCM						
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/10/2023 10:05:00 PM						
Surr: BFB	88.7	37.7-212	%Rec	1	4/10/2023 10:05:00 PM						
EPA METHOD 8021B: VOLATILES					Analyst: CCM						
Benzene	ND	0.025	mg/Kg	1	4/10/2023 10:05:00 PM						
Toluene	ND	0.049	mg/Kg	1	4/10/2023 10:05:00 PM						
Ethylbenzene	ND	0.049	mg/Kg	1	4/10/2023 10:05:00 PM						
Xylenes, Total	ND	0.099	mg/Kg	1	4/10/2023 10:05:00 PM						
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	4/10/2023 10:05:00 PM						
EPA METHOD 300.0: ANIONS					Analyst: SNS						
Chloride	ND	60	mg/Kg	20	4/11/2023 9:15:59 PM						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 10/6/2023 10:13:35 AM

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023 Client Sample ID: PH07 3'

Project:	Federal GC 1	Collection Date: 4/3/2023 9:15:00 AM										
Lab ID:	2304255-013	Matrix: SOIL	23 6:15:00 AM									
Analyses		Result	RL Qu	al Units	DF	Date Analyzed						
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH						
Diesel Ra	ange Organics (DRO)	18	9.7	mg/Kg	1	4/10/2023 10:31:55 PM						
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	4/10/2023 10:31:55 PM						
Surr: [ONOP	89.1	69-147	%Rec	1	4/10/2023 10:31:55 PM						
EPA ME	THOD 8015D: GASOLINE	RANGE				Analyst: CCM						
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	4/10/2023 10:27:00 PM						
Surr: E	BFB	87.6	37.7-212	%Rec	1	4/10/2023 10:27:00 PM						
EPA ME	THOD 8021B: VOLATILES					Analyst: CCM						
Benzene		ND	0.024	mg/Kg	1	4/10/2023 10:27:00 PM						
Toluene		ND	0.047	mg/Kg	1	4/10/2023 10:27:00 PM						
Ethylben	zene	ND	0.047	mg/Kg	1	4/10/2023 10:27:00 PM						
Xylenes,	Total	ND	0.094	mg/Kg	1	4/10/2023 10:27:00 PM						
Surr: 4	4-Bromofluorobenzene	86.4	70-130	%Rec	1	4/10/2023 10:27:00 PM						
EPA ME	THOD 300.0: ANIONS					Analyst: SNS						
Chloride		89	60	mg/Kg	20	4/11/2023 9:28:24 PM						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Federal GC 1

2304255-014

Project:

Lab ID:

Analytical Report Lab Order 2304255

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/12/2023

Client Sample ID: PH07 5'
Collection Date: 4/3/2023 9:20:00 AM
Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	Result RL Qua		DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/10/2023 10:42:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/10/2023 10:42:41 PM
Surr: DNOP	98.8	69-147	%Rec	1	4/10/2023 10:42:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/10/2023 10:48:00 PM
Surr: BFB	88.9	37.7-212	%Rec	1	4/10/2023 10:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/10/2023 10:48:00 PM
Toluene	ND	0.048	mg/Kg	1	4/10/2023 10:48:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/10/2023 10:48:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/10/2023 10:48:00 PM
Surr: 4-Bromofluorobenzene	89.3	70-130	%Rec	1	4/10/2023 10:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	4/11/2023 9:40:49 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: Project:	HILCOR Federal C	P ENERGY GC 1									
Sample ID:	MB-74252	SampType: MBL	.K	Tes	tCode: EF	PA Method	300.0: Anions				
Client ID:	PBS	Batch ID: 7425	52	F	5942						
Prep Date:	4/11/2023	Analysis Date: 4/1*	1/2023	S	Units: mg/Kg						
Analyte Chloride		Result PQL ND 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sample ID:	LCS-74252	SampType: LCS		Tes	300.0: Anions						
Client ID:	LCSS	Batch ID: 7425	52	F	5942						
Prep Date:	4/11/2023	Analysis Date: 4/1	/2023	S	474421	Units: mg/Kg	9				
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		15 1.5	15.00	0	98.2	90	110				
Sample ID:	MB-74258	SampType: MBL	.K	Tes	tCode: EF	PA Method	300.0: Anions				
Client ID:	PBS	Batch ID: 7425	8	F	RunNo: 9 5	5942					
Prep Date:	4/11/2023	Analysis Date: 4/1*	/2023	S	SeqNo: 34	474458	Units: mg/Kg	9			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND 1.5									
Sample ID:	LCS-74258	SampType: LCS		Tes	tCode: EF	PA Method	300.0: Anions				
Client ID:	LCSS	Batch ID: 7425	8	F	RunNo: 9 5	5942					
Prep Date:	4/11/2023	Analysis Date: 4/11/2023 SeqNo: 3474459 Units: mg/Kg									
Analyte				SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		15 1.5	15.00	0	96.9	90	110				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2304255

12-Apr-23

Client: HILCOR		Ϋ́Υ												
Project: Federal G	rC I													
Sample ID: LCS-74202	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics					
Client ID: LCSS	Batc	h ID: 742	202	F	RunNo: 95	5894								
Prep Date: 4/7/2023	Analysis I	Date: 4/	10/2023	S	SeqNo: 34	172132	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	61.9	130							
Surr: DNOP	4.5		5.000		90.2	69	147							
Sample ID: MB-74202	Samp	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics												
Client ID: PBS	Batc	h ID: 742	202	F	RunNo: 95	5894								
Prep Date: 4/7/2023	Analysis I	Date: 4/	10/2023	S	SeqNo: 34	72133	Units: mg/k	ζg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	ND	10												
Motor Oil Range Organics (MRO)	ND	50												
Surr: DNOP	8.7		10.00		87.2	69	147							
Sample ID: 2304255-010AMS	Samp	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics												
Client ID: PH05 7'	Batc	h ID: 742	212	F	RunNo: 95	5894								
Prep Date: 4/7/2023	Analysis I	Date: 4/	11/2023	S	SeqNo: 34	72613	Units: mg/k	ζg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	53	10	50.45	0	105	54.2	135							
Surr: DNOP	5.4		5.045		107	69	147							
Sample ID: 2304255-010AMSD	Samp ⁻	Type: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics					
Client ID: PH05 7'	Batc	h ID: 742	212	F	RunNo: 95	5894								
Prep Date: 4/7/2023	Analysis I	Date: 4/	11/2023	S	SeqNo: 34	172614	Units: mg/k	ζg						
Analyte		DOI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
	Result	PQL	OF IX Value			LOWLININ	riigii∟iiiit							
Diesel Range Organics (DRO)	Result 53	9.7	48.64	0	109	54.2	135	0.00226	29.2					
Diesel Range Organics (DRO) Surr: DNOP							3	0.00226 0	29.2 0					
• • • • •	53 5.3		48.64 4.864	0	109 109	54.2 69	135	0	0					
Surr: DNOP	53 5.3 Samp	9.7	48.64 4.864 S	0 Tes	109 109	54.2 69 PA Method	135 147	0	0					
Surr: DNOP Sample ID: LCS-74212	53 5.3 Samp	9.7 Type: LC h ID: 742	48.64 4.864 S 212	0 Tes F	109 109 tCode: EF	54.2 69 PA Method 5894	135 147	0 esel Range	0					
Surr: DNOP Sample ID: LCS-74212 Client ID: LCSS	53 5.3 Samp ⁻ Batc	9.7 Type: LC h ID: 742	48.64 4.864 S 212 10/2023	0 Tes F	109 109 tCode: EF RunNo: 95	54.2 69 PA Method 5894	135 147 8015M/D: Die	0 esel Range	0	Qual				
Sample ID:LCS-74212Client ID:LCSSPrep Date:4/7/2023	53 5.3 Samp Batc Analysis I	9.7 Type: LC h ID: 74 Date: 4 /	48.64 4.864 S 212 10/2023	0 Tes F	109 109 tCode: EF RunNo: 95 SeqNo: 34	54.2 69 PA Method 5894 172642	135 147 8015M/D: Die Units: mg/K	0 esel Range Kg	0 Organics	Qual				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2304255 12-Apr-23

	ORP ENERG al GC 1	Y										
Sample ID: MB-74212	SampT	уре: МВ	LK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	n ID: 742	212	F	RunNo: 9	5894						
Prep Date: 4/7/2023	Analysis D	Analysis Date: 4/10/2023			SeqNo: 34	172644	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	10		10.00		102	69	147					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
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- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2304255

12-Apr-23

Client:	HILCOI	RP ENERG	Y											
Project:	Federal	GC 1												
Sample ID:	lcs-74186	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•				
Client ID:	LCSS	Batch	ID: 741	86	F	RunNo: 9	5861							
Prep Date:	4/6/2023	Analysis D	ate: 4/7	7/2023	5	SeqNo: 34	471592	Units: mg/K						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	93.0	70	130						
Surr: BFB		2000		1000		200	37.7	212						
Sample ID:	mb-74186	SampT	SampType: MBLK TestCode: EPA Method 8							•				
Client ID:	PBS	Batch	ID: 741	186	F	RunNo: 9	5861							
Prep Date:	4/6/2023	Analysis D	ate: 4/8	8/2023	S	SeqNo: 34	471593	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	e Organics (GRO)	ND	5.0											
Surr: BFB		890		1000		88.8	37.7	212						
Sample ID:	lcs-74206	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•				
Client ID:	LCSS	Batch	ID: 742	206	F	RunNo: 9	5904							
Prep Date:	4/7/2023	Analysis D	ate: 4/	10/2023	S	SeqNo: 34	472695	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	92.2	70	130						
Surr: BFB		1900		1000		191	37.7	212						
Sample ID:	mb-74206	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•				
Client ID:	PBS	Batch	ID: 742	206	F	RunNo: 9	5904							
Prep Date:	4/7/2023	Analysis D	ate: 4/	10/2023	5	SeqNo: 34	472696	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
	e Organics (GRO)	ND	5.0											
Surr: BFB		890		1000		88.9	37.7	212						

Qualifiers:

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- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2304255

12-Apr-23

Client: HILCOF Project: Federal	RP ENERG GC 1	Y												
Sample ID: Ics-74186	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les						
Client ID: LCSS	Batc	h ID: 74 1	86	F	RunNo: 95	5861								
Prep Date: 4/6/2023	Analysis [Date: 4/3	8/2023	S	SeqNo: 34	71696	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.84	0.025	1.000	0	83.7	80	120							
Toluene	0.85	0.050	1.000	0	84.8	80	120							
Ethylbenzene	0.83	0.050	1.000	0	83.4	80	120							
Xylenes, Total	2.5	0.10	3.000	0	82.2	80	120							
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130							
Sample ID: mb-74186	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les						
Client ID: PBS	Batc	h ID: 74 1	86	F	RunNo: 95	5861								
Prep Date: 4/6/2023	Analysis [Date: 4/3	8/2023	S	SeqNo: 3471699 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	70	130							
Sample ID: Ics-74206	Samp	Гуре: LC	S	Tes	tCode: EF									
Client ID: LCSS	Batc	h ID: 742	206	F	RunNo: 95									
Prep Date: 4/7/2023	Analysis [Date: 4/	10/2023	S	SeqNo: 3 4	72712	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.90	0.025	1.000	0	89.7	80	120							
Toluene	0.89	0.050	1.000	0	88.7	80	120							
Ethylbenzene	0.86	0.050	1.000	0	86.4	80	120							
Xylenes, Total	2.6	0.10	3.000	0	85.6	80	120							
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	70	130							
Sample ID: mb-74206	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les						
Client ID: PBS	Batc	h ID: 742	206	F	RunNo: 95	5904								
Prep Date: 4/7/2023	Analysis [Date: 4/	10/2023	S	SeqNo: 3 4	72713	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
		0.050												
Toluene	ND	0.050												
Toluene Ethylbenzene	ND ND	0.050 0.050												

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

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E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

WO#:	2304255
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12-Apr-23

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Received By: Completed By: Reviewed By:	Tracy Cas Tracy Cas ん イ,	arrubias		3 6:15:00 A 3 6:48:32 A												
Chain of Cust 1. Is Chain of Cust	stody comp				Yes		No 🗹	Not Present								
 How was the s Log In Was an attempt 			es?		<u>Couri</u> Yes		No 🗌	NA 🗌								
4. Were all sampl	es received	at a temperal	ure of >0° C	to 6.0°C	Yes	✓	No 🗌	NA 🗌								
5. Sample(s) in p	roper contai	ner(s)?			Yes		No 🗌									
 6. Sufficient samp 7. Are samples (e) 			•••	ed?	Yes Yes		No 🗌 No 🗌									
8. Was preservati					Yes		No 🗹	na 🗀								
9. Received at lea				/OA?	Yes Yes		No 🗌 No 🗹	NA 🗹								
11. Does paperwor (Note discrepar					Yes		No 🗌	-	or >12 unless noted)							
12. Are matrices co			•		Yes		No 🗌	Adjusted?								
13. Is it clear what a 14. Were all holding (If no, notify cus	g times able	to be met?	,		Yes Yes		No 🛄 No 🗍	Checked by:	Jn4/6/23							
Special Handlin	ng (if app	licable)														
15. Was client noti			ith this order	>	Yes		No 🗌	NA 🗹	-							
Person N By Whon Regardin Client Ins	n: g:	Missing Mailir	ng address an	Date: Via: d phone nun	🔲 eMa		one 🗌 Fax	In Person								
16. Additional rem	arks:															
17. <u>Cooler Inform</u> Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da		ligned By									
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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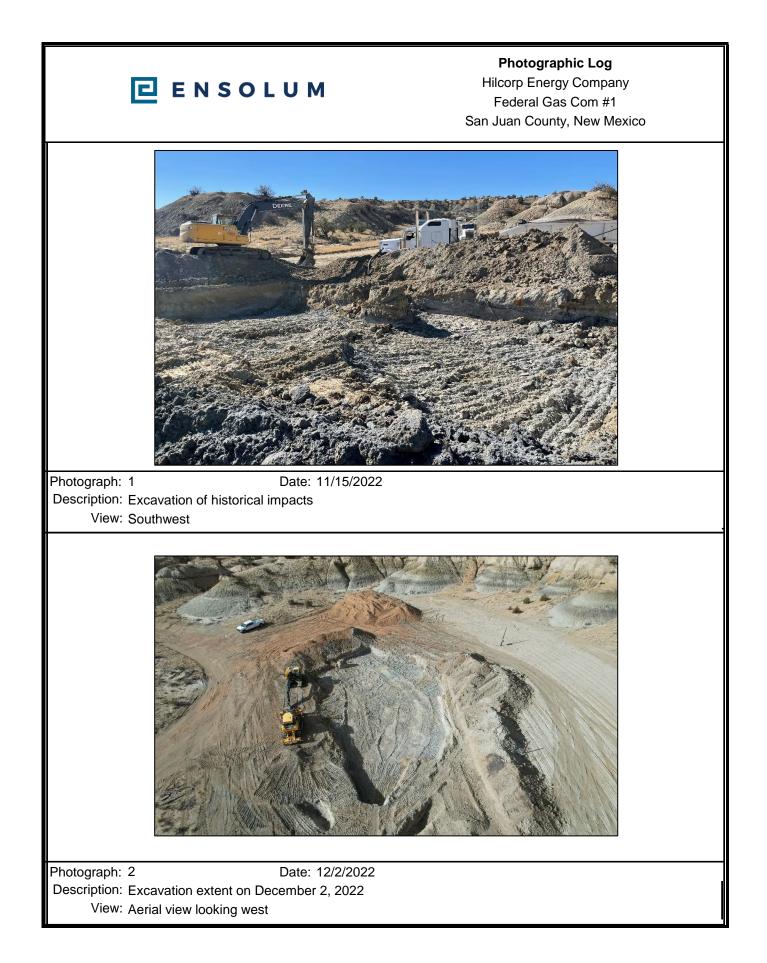
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 10/6/2023 10:13:35 AM



APPENDIX C

Photographic Log

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Micro-Blaze[™] Brochure

APPENDIX D





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Emergency Liquid Spill Control PRODUCT INFORMATION

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REMEDIATES (LIST NOT EXHAUSTIVE)

Acetone

EMERGENCY LIQUID SPILL CONTROL (ELSC)

- Acrylonitrite
- AFFF Waste
- Anti-Freeze
- Aviation Fuels
- Benzene & Benzene Compounds
- Crude Oil
- Diesel Fuel
- Dimethylformanide
- Fats
- Gasoline
- Grease
- Glycols
- Hydrocarbon Waste
- Kerosene
- Methanol
- Methyl Tertiary Butyl Ether (MTBE)
- Motor Oil
- Odor
- Organic Chemical Waste
- Organic Waste
- Paint Sludge
- Pipeline Condensation
- Polyurethane Resin Waste
- Sludge
- Toluene

Micro-Blaze®

Emergency Liquid Spill Control

Micro-Blaze® Emergency Liquid Spill Control is a safe, nontoxic, microbial formulation used for the bioremediation of hydrocarbons and other organic compounds. It breaks down, degrades, and digests organic waste while also suppressing vapors and eliminating flammability. The proprietary combination of wetting agents, nutrients, and microbes makes it an ideal formulation for use on many pollutants found in spills and contaminated sites.

Our microbes are naturally occurring, not genetically engineered, and found in soils and waters all over the earth. These microbes have been carefully researched, tested, and chosen for their affinity to degrade hydrocarbons and other organic waste.

USES

- Clean up hydrocarbon spills/leaks
- Soil bioremediation
- Vapor suppression
- Equipment, tank, and pipeline cleaning

BENEFITS

- Safe and cost-effective method for in-situ bioremediation of contaminated soils and water
- Elimination of vapors and LELs, creating a safe working environment
- Residue and runoff can be safely sent to industrial and municipal WWTPs
- 10-year shelf life and easy to use concentrate make it convenient to maintain on hand for future emergencies or everyday usage
- Listed on EPA NCP List as a bioremediation agent for 30 years*

* This listing does not mean the EPA approves, recommends, licenses, certifies or authorizes the use of Micro-Blaze® Emergency Liquid Spill Control or any other product on an oil discharge. This listing only means that data has been submitted to EPA as required by subpart J of the NCP §300.915.

Product Details

Appearance:

Cream to tan, opaque liquid, perfumed

<u>рН:</u> 7.0 - 8.0

Shelf Life:

10 Years

<u>Storage:</u>

Avoid temperatures over 48°C for long periods of time. Avoid prolonged freezing.

CAUTION: KEEP OUT OF REACH OF CHILDREN.

Do not take internally. Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing mist. Contains surfactants (soaps) which may irritate eyes or respiratory system. Use with adequate ventilation.

APPLICATION

Micro-Blaze® is a liquid concentrate and must be diluted before application.

DILUTION

Dilute with water between a 3% solution (3 parts Micro-Blaze®, 97 parts water) and a 10% solution (10 parts Micro-Blaze®, 90 parts water). Shake well before dilution and before application.

APPLICATION

Spray the diluted Micro-Blaze® directly onto the contamination with as much agitation as possible until the area is completely saturated. You can use any delivery system/sprayer, such as hand-held sprayers, fire extinguishers, power washers, CAFS systems, and water trucks.

For soil remediation, tilling the soil after application will help in achieving optimal results, though it is not required where not feasible.

HOW MUCH MICRO-BLAZE® DO I NEED?

1 gallon of Micro-Blaze® concentrate, after diluted, will treat either of the following:

- 10 gallons of spilled contamination
- 500 700 square feet of contaminated surface
- 5 7 cubic yards of contaminated soil

Contact a Micro-Blaze® sales representative for any additional application questions: technical@micro-blaze.com



1 Gallon Pail

MBELSC-1

8"x8"x12"

9lbs

SKU

Weight

SKU Dimensions Weight



5 Gallon Pail

MBELSC-5 12"x12"x15" Dimensions 47 lbs 36 pails /pallet



55 Gallon Drum

SKU

MBELSC-55 24"x 24"x35" Dimensions 500 lbs Weight 4 drums/pallet



PRODUCT SIZES & SPECS

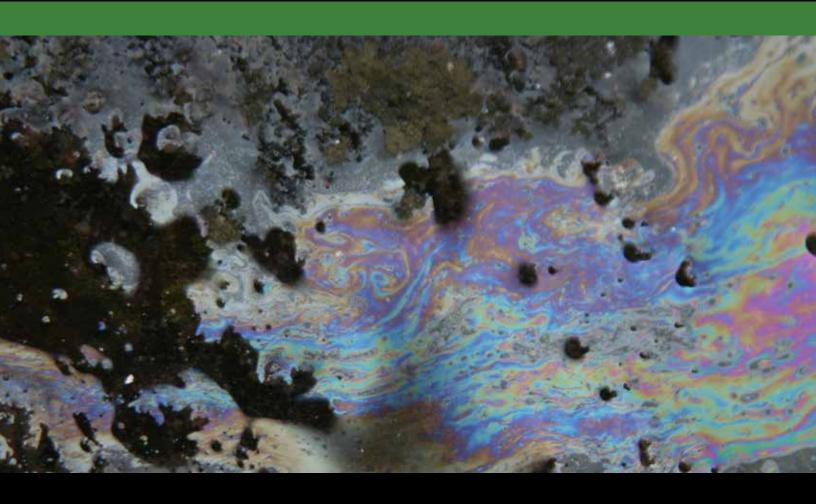
SKU

275 Gallon Tote

MBELSC-275 Dimensions 40"x48"x45" 2,500 lbs Weight



PARTNERING WITH NATURE FOR A CLEANER TOMORROW



Verde Environmental, Inc. 9223 Eastex Freeway Houston, TX 77093

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www.micro-blaze.com



Version 0522

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:				
HILCORP ENERGY COMPANY	372171				
1111 Travis Street	Action Number:				
Houston, TX 77002	241080				
	Action Type:				
	[C-141] Release Corrective Action (C-141)				

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved under the following conditions; 1. Variance to collect 5 composite samples not to exceed 400 square feet is approved. 2. Hilcorp must provide supporting documentation toward the site assessment/characterization report and submit within its final closure report. 3. Remediation Due date updated to April 3, 2024 (6 months) and to submit its appropriate or final closure report.	10/6/2023

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Action 241080